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1994
HKM Associates
Smith Mine Strip
Pit Reclamation
Project, DSL/AMRB
93-003, Carbon
County, Montana

FINAL REPORT

SMITH MINE STRIP PIT
RECLAMATION PROJECT
DSL/AMRB 93-003

CARBON COUNTY MONTANA

September 1994

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Smith Mine Strip Pit Reclamation Project
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TABLE OF CONTENTS

Page

1.0 INTRODUCTION 1
1.1 Site Description of Work 1

2.0 RESPONSIBLE PARTIES 1
2.1 Contractor 1
2.2 Reclamation Plan 1
2.3 Engineering Plan 1
2.4 Quality Control Inspection 1
2.5 AMRB Coordination 1

3.0 CHRONOLOGICAL LISTING OF EVENTS 1
3.1 Pre-Bid Conference 1
3.2 Bid Date 2
3.3 Three Lowest Bids 2
3.4 Contract Award 2
3.5 Notice of Award 2
3.6 Pre-Construction Meeting 2
3.7 Notice to Proceed 2
3.8 Construction Start-Up 2
3.9 Change Orders 2
3.10 Requests for Payment 2
3.11 Substantial Completion 3
3.12 Final Completion and Approval 3
3.13 Final Payment 3

4.0 CONSTRUCTION 3
4.1 Description of Project Plan 3
4.2 Major Equipment List 3
4.3 Subcontractor List 4
4.4 Construction Activities 4
4.5 Final Construction Quantities 5

5.0 PROJECT COSTS 6

6.0 PROJECT SUMMARY 6
6.1 Summary of Project 6
6.2 Site Condition After Completion 7

7.0 ANALYSIS OF CONSULTANT COSTS 7

ATTACHMENTS
I Site Location Map
II Bid Tabulations
III Payment Requests
IV Project Close-out Documents
V Various Construction Documents
VI Inspection Reports
VII Photographs

1.0 INTRODUCTION

1.1 Site Description of Work

The project consists of reclamation of approximately 28 acres of the abandoned Smith Mine strip pit, and a Virtue Gulch adit closure by blasting. The Smith Mine strip pit itself is approximately 5500 feet long, 40 feet wide and a high wall 35 feet. The adit closure by blast method is located along Virtue Gulch and is in a separate location from the Smith Mine strip pit. The work includes mobilization and demobilization, earthwork excavation and embankment, coal slack burial, drainage channels construction, topsoil salvage and respreading, revegetation, lime spreading, placement of straw bales for erosion control and construction of 5595 lineal feet of farm fence.

The access to the site is shown on Attachment I.

2.0 RESPONSIBLE PARTIES

2.1 Contractor

E. H. Oftedal and Sons, Inc.
P.O. Box 400
Miles City, MT 59301

2.2 Reclamation Plan

HKM Associates
P.O. Box 31318
Billings, Montana 59107

2.3 Engineering Plan

HKM Associates
P.O. Box 31318
Billings, Montana 59107

2.4 Quality Control Inspection

Preliminary and Final Plans and Specifications by:

HKM Associates
P.O. Box 31318
Billings, Montana 59107

2.5 AMRB Coordination

Vic Anderson and Joel Chavez
Department of State Lands

3.0 CHRONOLOGICAL LISTING OF EVENTS

3.1 Pre-Bid Conference

June 23, 1993

Digitized by the Internet Archive
in 2014

https://archive.org/details/smithminestrippi1994hkma

3.2 Bid Date

July 6, 1993

3.3 Three Lowest Bids

1. E. H. Oftedal & Sons, Inc.
   P.O. Box 400
   Miles City, MT 59301 — $211,087.00

2. Montgomery Construction
   Lewistown, MT 59457 — $299,903.00

3. Coleman Construction
   Dillon, MT 59725 — $320,770.00

Copies of the complete Bid Tabulations are included in ATTACHMENT II.

3.4 Contract Award

E. H. Oftedal & Sons, Inc.
P.O. Box 400
Miles City, MT 59301

3.5 Notice of Award

Pre-award Meeting: July 13, 1993
Contract Award: August 17, 1993

3.6 Pre-Construction Meeting

September 13, 1993

3.7 Notice to Proceed

September 20, 1993

3.8 Construction Start-Up

September 27, 1993
Shutdown: December 1, 1993
Resumed Work: March 31, 1994

3.9 Change Orders

None

3.10 Requests for Payment

Payment No.	Amount	Approved	Date
1	$53,847.45	Yes	9-30-93
2	$69,542.55	Yes	11-1-93
3	$36,932.81	Yes	1-3-94
4	$41,945.45	Yes	7-8-94
5	$10,645.70	Yes	8-19-94

Copies of all Payment Requests are included in ATTACHMENT III.

3.11 Substantial Completion

The Certificate of Substantial Completion was issued on June 9, 1994. At this time the project is sufficiently completed so that the owner can utilize the project for the use for which it was intended.

3.12 Final Completion and Approval

The final inspection was conducted on June 30, 1994 by Joel Chavez of AMRB along with Ross Waples, HKM Associates. The Certificate of Acceptance was issued on August 19, 1994, 1994.

3.13 Final Payment

Final Payment was processed on August 19, 1994 the total construction amount paid to E. H. Oftedal and Sons was $212,913.95. One percent of this amount has been deducted for taxes.

4.0 CONSTRUCTION

4.1 Description of Project Plan

The project plan for the Smith Mine strip pit and Virtue Gulch adit consisted of eighteen major work activities, which are listed here in their suggested order of work:

101 Mobilization
102 Unclassified Excavation
103 Topsoil Rehandling
104 Riprap Type I
105 Riprap Type II
106 Bedding Material
107 Rock Channel Protection
108 Erosion Control Mat
109 Filter Fabric
110 Revegetation
111 Lime Application
112 Straw Bales for Erosion Control
113 Farm Fence Type F4M
114 Double Panels
115 Single Panels
116 Gate (16')
117 Silt Fence
118 Adit Blast-Closure

A detailed description of the different work activities is given in Section 4.4 Construction Activities.

4.2 Major Equipment List

Type	Make/Model	Number
Dozer	Cat D9L	2
Scrapers	Tere X	3
Motor Grader	Cat 14G	1
Loader	Cat 988	1
Trackhoe	Komatsu PC 200L	1

4.3 Subcontractor List

Townsend Agricultural Services
P.O. Box 265
Cowley, WY 82420

Conroy Inc.
P.O. Box 516
Hardin, MT 59034

4.4 Construction Activities

(A) Mobilization

1) This item constituted all preparatory work and operations performed by the Contractor, including the transportation and movement of personnel, equipment, supplies and incidentals to the project; for necessary permits; for the establishment of all offices and other facilities necessary to work on the project; for premium on contract bonds; for insurance for the contract; and for other work and operations that must be performed or costs incurred before beginning work on the various items on the project. Mobilization costs for subcontracted work shall be considered to be included.

(B) Unclassified Excavation

This item shall consist of all topsoil removal, and stockpiling, excavation fill placement, selective handling, site grading, drainage, compaction and dust control.

(C) Topsoil Rehandling

Topsoil rehandling shall be by the cubic yard. Topsoil that can be immediately spread on the finished grade shall be measured and paid for as "unclassified excavation". Topsoil that must be stockpiled before spreading shall be measured in the stockpile by the Engineer. The stockpile shall be of such uniformity and dimensions that it can be conveniently measured by cross section. Removal from the stockpile and spreading of this topsoil shall be considered "topsoil rehandling".

(D) Riprap

Riprap shall consist of a revetment composed of stone or fragmented rock placed as a protection covering. Stone shall be hard, durable, angular in shape, resistant to weathering and to water action. The stone shall be free from overburden, spoil, shale, structural defects, organic matter and shall meet gradation requirements for the class specified. The stone shall be graded so the smaller stone is uniformly distributed, shall be handled or dumped at the designated locations to form the cross section shown on the drawings.

(E) Bedding Material

Bedding material shall consist of granular material (sand and gravel) placed beneath the riprap.

(F) Rock Channel Protection

Rock channel protection for triangular channels shall be hard, durable, angular in shape and resistant to weathering.

(G) Erosion Control Matt

Erosion control matt shall be furnished in continuous rolls of 30 feet or greater with a minimum width of 6 feet. The erosion control matt must comply with contract specifications.

(H) Filter Fabric

Filter fabric shall be a material specifically manufactured for the purpose of acting as a filter zone which prevents the movement of soil particles due to piping, while it allows free movement of water.

(I) Revegetation

This work will consist of ground surface preparation, furnishing, applying, and incorporating fertilizer into the soil, seedbed preparation, furnishing and planting seed, tracking, cleanup and covering and processing all seeded areas with mulch as specified.

(J) Lime Application

The extent of lime application shall consist of furnishing and incorporating lime to minimum depth of 6 inches. The Contractor shall use the assumption of 5 acres will be limed at an application rate of 30 tons per acre.

(K) Straw Bales for Erosion Control

The Contractor shall furnish and install straw bales, certified weed free, for erosion control as shown on the plans.

(L) Farm Fence Type F-4M

This work shall consist of installing Type F-4M (4-wire) farm fence around the site as shown on the drawings.

(M) Silt Fence

This work will consist of furnishing and placing silt fence if directed by the Engineer as a substitute for straw bale erosion control.

(N) Adit Blast Closure

This item shall consist of all material, work and incidentals necessary to blast close the adit in Virtue Gulch. All blasting shall be performed by a certified blaster licensed in the State of Montana.

4.5 Final Construction Quantities

ITEM NUMBER	WORK DESCRIPTION	QUANTITIES
101	Mobilization	1 Lump Sum
102	Unclassified Excavation	219,988 Cu. Yds.
103	Topsoil Rehandling	8,746 Cu. Yds.
104	Riprap Type I	10 Cu. Yds.
105	Riprap Type II	609 Cu. Yds.
106	Bedding Material	103 Cu. Yds.
107	Rock Channel Protection	60 Cu. Yds.

108	Erosion Control Matt	1563 S.Y.
109	Filter Fabric	305 S.Y.
110	Revegetation	30 Acres
111	Lime Application	30 Tons
112	Straw Bales	127 Ea.
113	Farm Fence Type F-4M	5595 L.F.
114	Double Panels	10 Ea.
115	Single Panels	13 Ea.
116	Gate (16')	4 Ea.
117	Silt Fence	0 L.F.
118	Adit Blast Closure	1 L.S.

5.0 PROJECT COSTS

The total construction cost of the project was $212,913.95.

This cost is greater than the Base Bid Price of $211,087.00 by $1,826.95. This cost overage is primarily due to an increase in the unclassified excavation quantity. The additional quantity was from a slightly greater excavation in the western limits of the north and south pit areas.

6.0 PROJECT SUMMARY

6.1 Summary of Project

The Smith Pit reclamation project consisted of backfilling a contour surface mine in the vicinity of Bearcreek, Montana. The project consisted of backfilling the pit with approximately 220,000 cu. yds. of on-site material. Available topsoil and other suitable material was stockpiled and respread, and the disturbed area was revegetated. Rip rap and/or erosion control fabric channels were built to approximate premining drainage patterns.

In November 1993 the contractor requested that the grade in the old gravel pit area be modified slightly to minimize the haul required to move approximately 7,500 cu. yds. from the southern area of the pit. This change was accomplished without compromising the stability of the designed landscape.

Although it was anticipated that the construction would be complete in the fall of 1993, winter weather required a spring completion.

The items completed during the spring of 1994 were as follows:

1. Minor grading
2. Placing of a portion of the erosion control mat
3. Revegetation
4. Fencing
5. Adit closure
6. Final site cleanup
7. Demobilization

These items were completed on June 9, 1994. A final inspection by DSL and HKM was performed on June 30,1994. At that time, given the extremely dry conditions, the possibility of reseeding the site in the autumn was discussed.

6.2 Site Condition After Completion

This site was constructed to remove the highwall safety hazards and to approximate original contours of the terrain. Restoring proper surface drainage to reduce future soil erosion was also a design goal. All disturbed areas were seeded and mulched according to specifications. However by August 1994 it was deemed necessary to reseed the area due to the extremely dry conditions. This will be accomplished with a maintenance contract.

Photographs of the site are included in Attachment VII.

7.0 ANALYSIS OF CONSULTANT COSTS

Design for this project included:

1. Preparation of a "Grant Narrative and Budget Estimate"
2. Consents and clearances
3. Design
4. Construction administration
5. Project closeout

An analysis of the engineering and construction costs is included in the following tables:

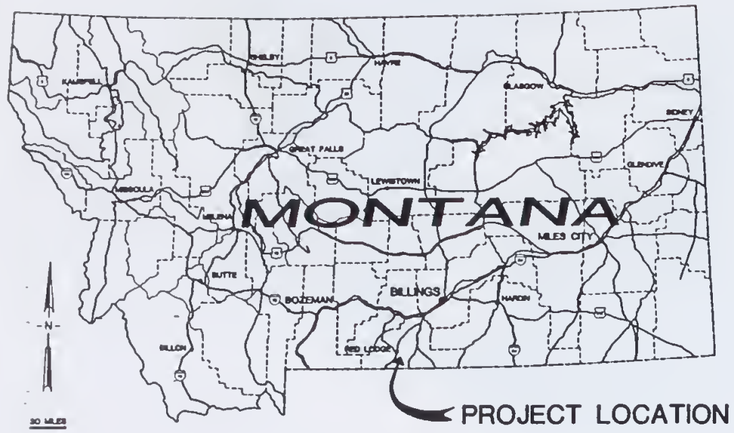
Task Description	Approximate Cost
Approximate Engineering Design/Closeout	$22,340.97
Approximate Construction Administration	$24,000.00
TOTAL	$46,340.97
Construction Cost	$212,913.97

Relative Cost Percentages

Design Engineering/Construction Cost	$ 22,340.97 / $212,913.95	= 10%
Construction Administration/Construction Cost	$ 24,000.00 / $212,913.95	= 11%
Total Engineering/Construction Cost	$ 48,340.97 / $212,913.95	= 22%

ATTACHMENT I

SITE LOCATION MAP



LOCATION MAP

SMITH PIT MINE
RECLAMATION PROJECT

CARBON COUNTY, MONTANA

Project No. : DSL-AMRB No. 93-003
HKM No. 8M186.139

Prepared for :

ABANDONED MINE RECLAMATION BUREAU
MONTANA DEPARTMENT OF STATE LANDS
1625 Eleventh Avenue
Helena, Montana 59620

MONTANA
ABANDONED MINE
RECLAMATION BUREAU

INDEX OF SHEETS

1. COVER SHEET
2. SITE LOCATION MAP
3. SITE PLAN - SOUTH HALF
4. SITE PLAN - NORTH HALF
5. SITE GRADING AND DRAINAGE PLAN - SOUTH HALF
6. SITE GRADING AND DRAINAGE PLAN - NORTH HALF
7. TYPICAL CHANNEL SECTION AND EROSION AND SEDIMENT CONTROL STRUCTURES
8. CHANNEL PROFILES
9. CROSS SECTIONS STA. 95+00 TO STA. 96+00
10. CROSS SECTIONS STA. 99+00 TO STA. 102+00
11. CROSS SECTIONS STA. 103+00 TO STA. 106+00
12. CROSS SECTIONS STA. 107+00 TO STA. 110+00
13. CROSS SECTIONS STA. 111+00 TO STA. 114+00
14. CROSS SECTIONS STA. 115+00 TO STA. 118+00
15. CONSTRUCTION STAKING NOTES - NORTH HALF
16. CONSTRUCTION STAKING NOTES - SOUTH HALF

Prepared by :

HKM ASSOCIATES
ENGINEERS·PLANNERS
2727 Central Avenue
P.O. Box 31318
Billings, Montana 59107

Branch Offices:
• Sheridan, Wyoming
• Bozeman & Miles City, Montana

MONTANA PROFESSIONAL ENGINEER A. T. KERSICH 1996 E. REGISTERED
A. T. Kersich, P.E.
Principal-In-Charge

MONTANA PROFESSIONAL ENGINEER GREGORY C. UNDERHILL 8759 PE REGISTERED
Greg C. Underhill, P.E.
Project Manager

Sheet No. 1 of 16

Red Lodge (Pop. 5554)

Gravel Pit

Highway 308

Ditch

Creek

BM 5627

Washoe

Mine Dump

Gulch

Mine Dump

Mine Dump

Mine Dump

Highway 308

Bearmouth (Pop. 478)

ADIT

ACCESS ROAD TO ADIT

SMITH PIT MINE

ACCESS ROAD TO MINE

END FENCE AT EXISTING GATE

GATE

APPROXIMATE CONSTRUCTION LIMITS

APPROXIMATE CONSTRUCTION LIMITS

STA. 94+00
BEGIN PROJECT BASELINE
N 10000.00
E 9400.00

DO NOT DISTURB ANY EXISTING POWER POLES

INSTALL NEW FENCE

PROJECT BASELINE

CP1

STA. 120+00
END PROJECT BASELINE
N 10000.00
E 12000.00

CP359

CP170

CP155

CP186

CP258

CP240

INSTALL NEW FENCE

APPROXIMATE CONSTRUCTION LIMITS

GATE

TO HIGHWAY 308

CP90

STAGING AREA

CP263

CP339

CP262

BRASS CAP SECTION CORNER DO NOT DISTURB!!

APPROXIMATE CONSTRUCTION LIMITS

CP2

CP3

CP199

CP334

CP335

TRAIL

ROAD

SITE LOCATION MAP

1000 0 1000 2000
scale feet

LEGEND

- FOUND BRASS CAP
- CONTROL POINT
- EXISTING POWER POLE
- EXISTING POWER POLE LIVE
- EXISTING POWER LINE
- EXISTING R/W FENCE
- ACCESS ROAD
- TRAIL
- NEW FENCE LINE
- NEW GATE
- APPROXIMATE CONSTRUCTION LIMITS

200 0 200 400
scale feet

EXISTING CONTOUR INTERVAL = 5 FEET

SURVEY CONTROL MONUMENTS

NOTE: THESE MONUMENTS SHALL VERIFIED BY CONTRACTOR PRIOR TO USE. A PRIMARY CONTROL COORDINATE LISTING WILL BE SUPPLIED BY THE ENGINEER PRIOR TO CONSTRUCTION.

MONUMENT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP 1	10000.00	10000.00	5001.50	60d NAIL
CP 2	10741.90	10236.70	4967.49	60d NAIL
CP 3	10806.83	9670.06	4951.27	60d NAIL
CP 90	9241.08	10287.11	4918.25	60d NAIL
CP 155	9750.79	11540.15	4972.22	60d NAIL
CP 170	9810.25	11682.60	4956.92	60d NAIL
CP 186	9653.65	11073.15	4968.14	60d NAIL
CP 199	10606.84	10456.34	4972.77	60d NAIL
CP 240	9430.73	10586.96	4933.78	60d NAIL
CP 258	9589.18	11183.16	4950.75	60d NAIL
CP 262	8916.09	9850.45	4890.60	60d NAIL
CP 263	9111.32	9625.74	4922.18	60d NAIL
CP 334	10605.98	11021.37	4974.48	60d NAIL
CP 335	10589.08	11208.44	4954.37	60d NAIL
CP 339	8994.02	9557.56	4912.70	60d NAIL
CP 359	10108.69	11648.10	4983.56	60d NAIL
	8908.50	9656.79	4875.32	BRASS CAP SECTION CORNER

No	Revision	By	Date

● Checked DN ● Approved
● Designed GU ● Drawn GE
● Date MAY 1993
● Project No. BM186.139 ● SHT2.DWG

WARNING
½
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SMITH PIT MINE RECLAMATION
CARBON COUNTY, MONTANA

SITE LOCATION MAP

HKM ASSOCIATES
ENGINEERS-PLANNERS
2727 Central Avenue
P.O. Box 31318
Billings, Montana 59107
Branch Offices:
• Sheridan, Wyoming
• Bozeman & Miles City, Montana

Sheet No 2 of 16

Stormwater Erosion Control Plan
Best Management Practices (BMP)

The following BMP's shall be installed and maintained throughout construction:

a. Temporary Sediment and Erosion Control

(i) Control shall be accomplished by placement of straw bale dikes or ditch checks as appropriate as shown on the plans or otherwise as directed by the Engineer. Straw bale slope dikes shall be placed on the downslope side of all temporary topsoil stockpiles. Properly installed silt fence may be substituted for straw bale dikes if approved by the Engineer. Silt fence shall not be used in channels

(ii) Mulching of entire disturbed area after seeding and fertilizing (cost for mulching is included in bid price for revegetation).

(iii) Dust control by watering haul roads, access roads and other areas when required (cost included in unclassified excavation).

(iv) If necessary temporary runoff interceptor ditches shall be constructed as directed by the Engineer (paid for under unclassified excavation).

(v) Erosion control matt shall be placed in channels as shown on the plans (paid for under erosion control matt).

b. Permanent Stabilization

(i) Permanent seeding of entire disturbed areas (included in bid price for revegetation).

(ii) Riprap channel and outlet protection (paid for under riprap).

(iii) Grassed channels (unclassified excavation and revegetation).

(iv) Erosion control contour ditches (paid for under unclassified excavation).

c. Good housekeeping and material handling (included in bid price for mobilization).

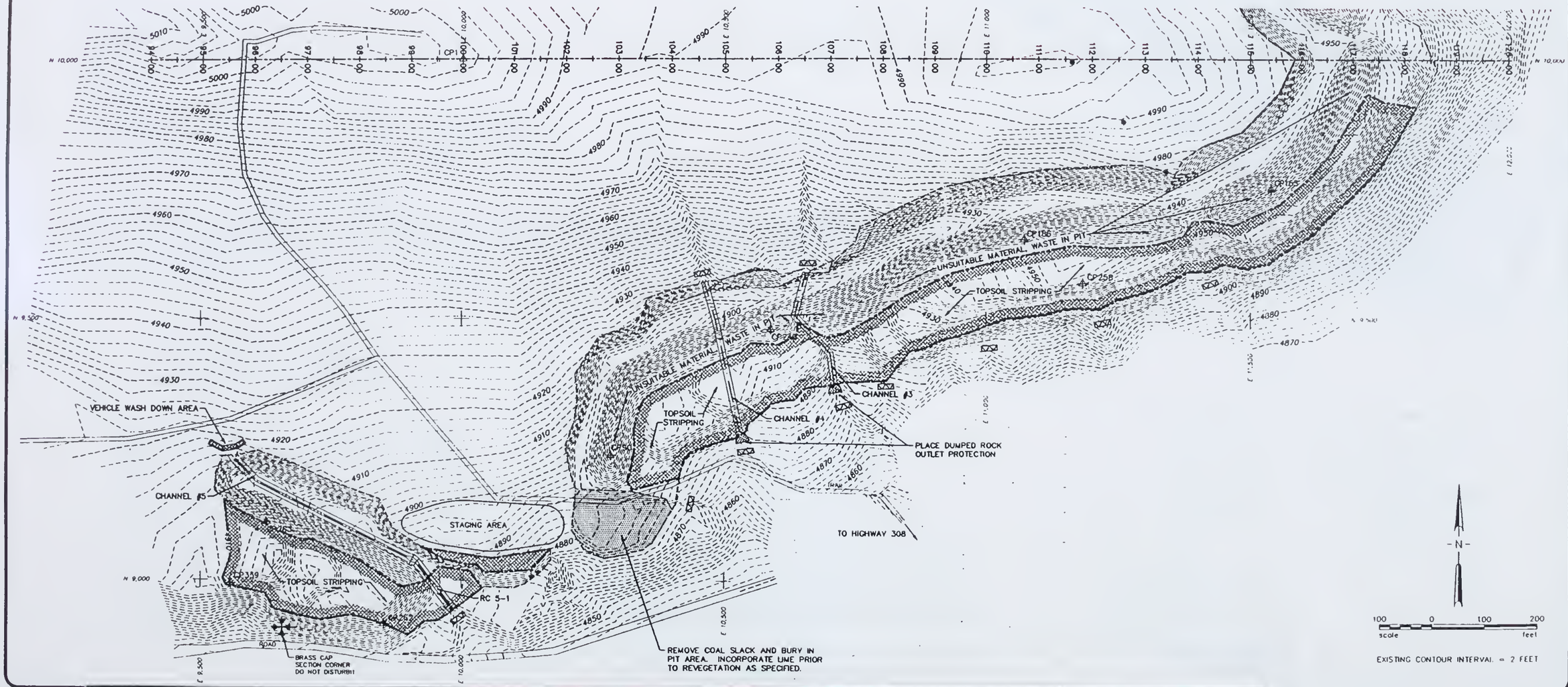
(i) To prevent tracking of sediment off-site, prior to leaving the site, all vehicles shall be washed down on-site at such a location as to contain all washed sediment on-site (i.e. above straw bales or silt fence dikes). A location is shown on the plans.

(ii) Fuel, oil, grease and other such materials shall be stored in one location within the staging area. All materials shall be stored in a bermed plastic lined storage area with a capacity of 110 percent of the largest container. Absorbent material shall be available on-site for clean up of any spills.

(iii) Lime and fertilizer shall be stored on pallets off the ground or on plastic ground covers and covered with plastic or in other such manner as to prevent spillage and washing from rain water or wind into surrounding soil or off-site.

LEGEND

- FOUND BRASS CAP
- CONTROL POINT
- EXISTING POWER POLE
- ACCESS ROAD
- TRAIL
- CATCHLINE
- LIMITS OF TOPSOIL STRIPPING 2 FEET DEEP
- COAL SLACK REMOVAL AREA (REMOVE COAL SLACK AND BURY IN PIT AREA WITH 2 FT. MINIMUM COVER)
- TRIANGULAR CHANNEL
- TRAPEZOIDAL CHANNEL
- ROCK RIPRAP CHANNEL (RC 5-1)
- DUMPED ROCK OUTLET PROTECTION
- STRAW BALE DIKE OR SILT FENCE (SEE DETAIL, SHEET 7)
- STRAW BALE DITCH CHECK (SEE DETAIL, SHEET 7)



No	Revision	By	Date

WARNING
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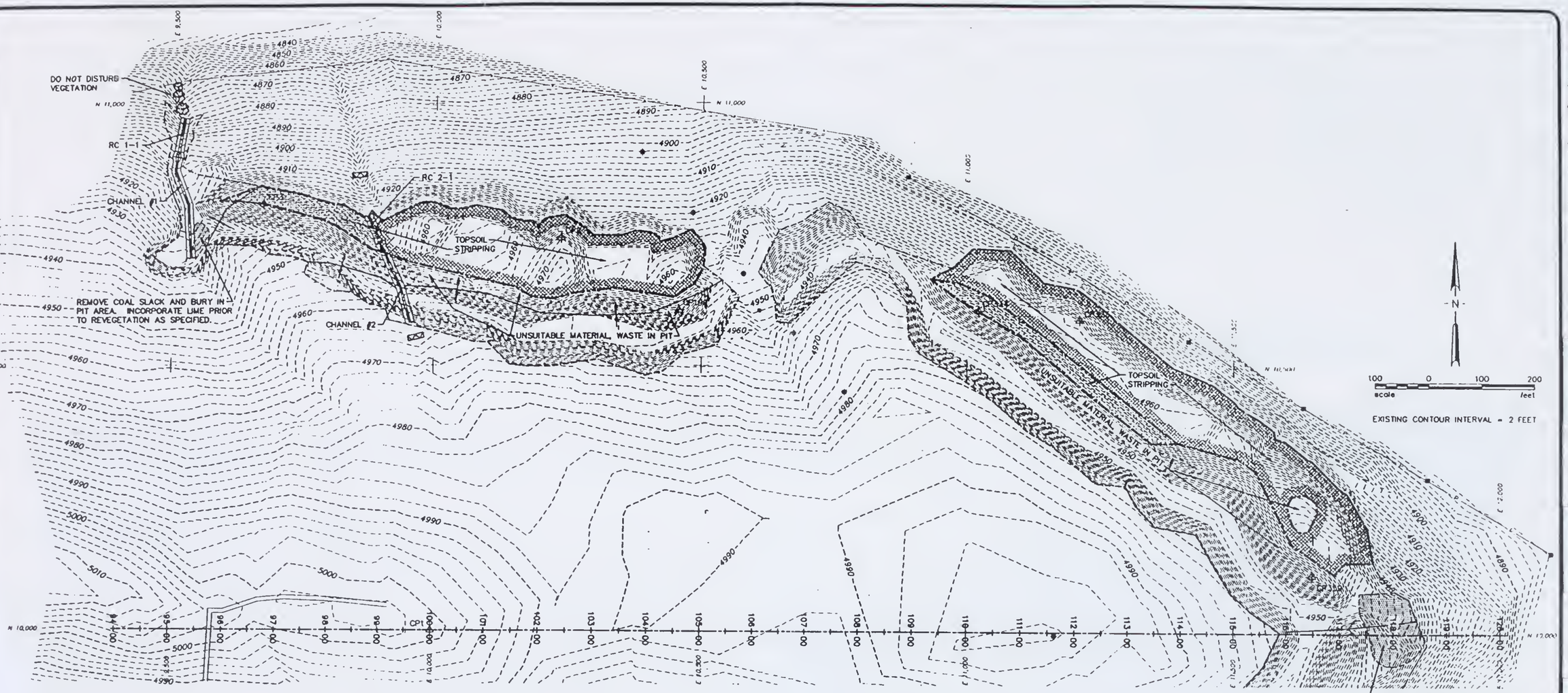
SMITH PIT MINE RECLAMATION
CARBON COUNTY, MONTANA

SITE PLAN - SOUTH HALF

Project No. BM186.139 • Date MAY 1993 • SHT3.DWG • Designed GU • Drawn GE • Checked GN • Approved

HKM ASSOCIATES
ENGINEERS-PLANNERS
2727 Central Avenue
P.O. Box 31318
Billings, Montana 59107
Branch Offices:
• Sheridan, Wyoming
• Bozeman & Miles City, Montana

Sheet No. 3 of 16


DO NOT DISTURB VEGETATION
RC 1-1
RC 2-1
CHANNEL #1
CHANNEL #2
TOPSOIL STRIPPING
REMOVE COAL SLACK AND BURY IN PIT AREA. INCORPORATE LIME PRIOR TO REVEGETATION AS SPECIFIED.
UNSUITABLE MATERIAL, WASTE IN PIT
TOPSOIL STRIPPING
UNSUITABLE MATERIAL, WASTE IN PIT
N
100 0 100 200
scale feet
EXISTING CONTOUR INTERVAL = 2 FEET
REMOVE COAL SLACK AND BURY IN PIT AREA. INCORPORATE LIME PRIOR TO REVEGETATION AS SPECIFIED.

Stormwater Erosion Control Plan
Best Management Practices (BMP)

The following BMP's shall be installed and maintained throughout construction:

a. Temporary Sediment and Erosion Control

(i) Control shall be accomplished by placement of straw bale dikes or ditch checks as appropriate as shown on the plans or otherwise as directed by the Engineer. Straw bale slope dikes shall be placed on the downslope side of all temporary topsoil stockpiles. Properly installed silt fence may be substituted for straw bale dikes if approved by the Engineer. Silt fence shall not be used in channels

(ii) Mulching of entire disturbed area after seeding and fertilizing (cost for mulching is included in bid price for revegetation).

(iii) Dust control by watering haul roads, access roads and other areas when required (cost included in unclassified excavation).

(iv) If necessary temporary runoff interceptor ditches shall be constructed as directed by the Engineer (paid for under unclassified excavation).

(v) Erosion control matt shall be placed in channels as shown on the plans (paid for under erosion control matt).

b. Permanent Stabilization

(i) Permanent seeding of entire disturbed areas (included in bid price for revegetation).

(ii) Riprap channel and outlet protection (paid for under riprap).

(iii) Gressed chennels (unclassified excavation and revegetation).

(iv) Erosion control contour ditches (paid for under unclassified excavation).

c. Good housekeeping and material handling (included in bid price for mobilization).

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(iii) Lime and fertilizer shall be stored on pallets off the ground or on plastic ground covers and covered with plastic or in other such manner as to prevent spillage and washing from rain water or wind into surrounding soil or off-site.

LEGEND

- FOUND BRASS CAP
- CONTROL POINT
- EXISTING POWER POLE
- EXISTING POWER POLE LIVE
- EXISTING POWER LINE
- EXISTING R/W FENCE
- ACCESS ROAD
- TRAIL
- CATCHLINE
- LIMITS OF TOPSOIL STRIPPING 2 FEET DEEP
- LIMITS OF TOPSOIL STRIPPING 1 FEET DEEP
- COAL SLACK REMOVAL AREA (REMOVE COAL SLACK AND BURY IN PIT AREA WITH 2 FT. MINIMUM COVER)
- TRIANGULAR CHANNEL
- TRAPEZOIDAL CHANNEL
- ROCK RIPRAP CHANNEL
- BRUSH OR TREES
- STRAW BALE DITCH CHECK (SEE DETAIL, SHEET 7)
- GRADE BREAK
- SLOPE CHANGE

No	Revision	By	Date

Checked DN · Approved

WARNING
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Drawn GE · Designed GU · Date MAY 1993 · SHT4 DWG · Project No 8H186.139

SMITH PIT MINE RECLAMATION
CARBON COUNTY, MONTANA

SITE PLAN - NORTH HALF

HKM ASSOCIATES
ENGINEERS·PLANNERS
2727 Central Avenue
P.O. Box 31318
Billings, Montana 59107
Branch Offices:
• Sheridan, Wyoming
• Bozeman & Miles City, Montana

Sheet No 4 of 16

LEGEND

- FOUND BRASS CAP
- CONTROL POINT
- EXISTING POWER POLE
- EXISTING POWER POLE LIVE
- ACCESS ROAD
- TRAIL
- NEW FENCE LINE
- NEW GATE
- CATCHLINE
- TRIANGULAR CHANNEL
- TRAPEZOIDAL CHANNEL
- ROCK RIPRAP CHANNEL (RC 5-1)
- CONTOUR DITCH
- DUMPED ROCK OUTLET PROTECTION
- XXX EROSION CONTROL BALES (SEE DETAIL, SHEET 7)

ALL EROSION CONTROL CONTOUR DITCHES SHALL BE CONSTRUCTED AT THE LOCATIONS AND ELEVATIONS SHOWN. THE DITCHES SHALL BE LEVEL (0% SLOPE) AND SHALL MAINTAIN THE INVERT ELEVATION GIVEN FOR THE ENTIRE LENGTH OF THE DITCH.

CONSTRUCT EROSION CONTROL CONTOUR DITCH EL.=4969

CONSTRUCT EROSION CONTROL CONTOUR DITCH EL.=4949

DO NOT DISTURB EXISTING POWER POLES

INSTALL NEW FENCE

CONSTRUCT EROSION CONTROL CONTOUR DITCH EL.=4901

CHANNEL #4

CHANNEL #3

CONSTRUCT EROSION CONTROL CONTOUR DITCH EL.=4917

PLACE DUMPED ROCK OUTLET PROTECTION (TYPE I RIPRAP)

GATE

CHANNEL #5

REVEGETATE STAGING AREA

RESTORE ROAD TO EXISTING DIMENSIONS AS SPECIFIED IN SECTION 3.15-A-2

RC 5-1

TO HIGHWAY 308

BRASS CAP SECTION CORNER DO NOT DISTURB!

N

100 0 100 200
scale feet

EXISTING CONTOUR INTERVAL = 2 FEET

No.	Revision	By	Date

WARNING
0 ½
IF THIS BAR DOES NOT MEASURE 1" THE DRAWING IS NOT TO SCALE

SMITH PIT MINE RECLAMATION
CARBON COUNTY, MONTANA

SITE GRADING AND DRAINAGE PLAN SOUTH HALF

● Project No. 8M188.139 ● SHT5.DWG ● Date MAY 1993 ● Designed GU ● Drawn GE ● Checked DN ● Approved

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Billings, Montana 59107

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DO NOT DISTURB VEGETATION

END FENCE AT EXISTING

GATE

RC 1-1

CHANNEL #1

RC 2-1

CHANNEL #2

CONSTRUCT EROSION CONTROL CONTOUR DITCH EL.=4955

DO NOT DISTURB EXISTING POWER POLES

INSTALL NEW FENCE

END FENCE AT EXISTING

INSTALL NEW FENCE

GATE

CONSTRUCT EROSION CONTROL CONTOUR DITCH EL.=4969

CONSTRUCT EROSION CONTROL CONTOUR DITCH EL.=4969

N

100 0 100 200
scale feet

EXISTING CONTOUR INTERVAL = 2 FEET

ALL EROSION CONTROL CONTOUR DITCHES SHALL BE CONSTRUCTED AT THE LOCATIONS AND ELEVATIONS SHOWN. THE DITCHES SHALL BE LEVEL (0% SLOPE) AND SHALL MAINTAIN THE INVERT ELEVATION GIVEN FOR THE ENTIRE LENGTH OF THE DITCH.

LEGEND

- FOUND BRASS CAP
- CONTROL POINT
- EXISTING POWER POLE
- EXISTING POWER POLE LIVE
- EXISTING POWER LINE
- EXISTING R/W FENCE
- ACCESS ROAD
- TRAIL
- NEW FENCE LINE
- NEW GATE
- CATCHLINE
- TRIANGULAR CHANNEL
- TRAPEZOIDAL CHANNEL
- ROCK RIPRAP CHANNEL
- CONTOUR DITCH
- GRADE BREAK
- SLOPE CHANGE
- XXX EROSION CONTROL BALES (SEE DETAIL, SHEET 7)

No.	Revision	By	Date

WARNING
½ 0 1
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Project No. AM186.139 • SHT6.DWG • Date MAY 1993 • Designed GU • Drawn GE • Checked DN • Approved

SMITH PIT MINE RECLAMATION
CARBON COUNTY, MONTANA

SITE GRADING AND DRAINAGE PLAN NORTH HALF

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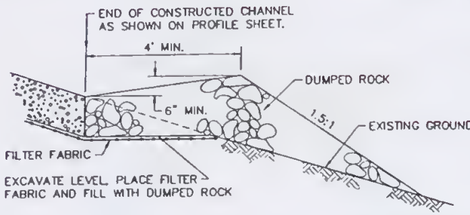
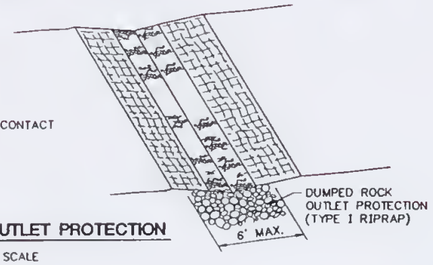




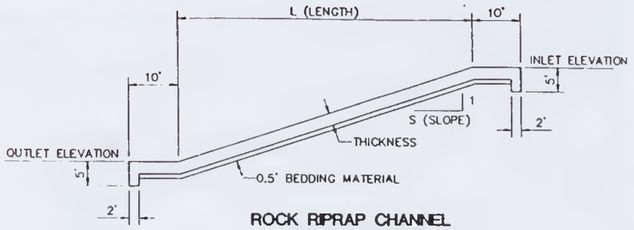
DUMPED ROCK OUTLET PROTECTION

NO SCALE

* ROCK RIPRAP CHANNEL SCHEDULE

ROCK CHANNEL	INLET ELEVATION	OUTLET ELEVATION	L ft	W ft	D ft	T ft	CHANNEL SLOPE S:1	RIPRAP TYPE	RIPRAP QUANTITY CU. YD.	BEDDING QUANTITY CU. YD.
RC 1-1	4897	4876	55	5	2	3	2.62	II	198	33
RC 2-1	4942	4924	35	5	2	3	2.69	II	147	24
RC 5-1	4888	4864.5	104	5	2	3	4.43	II	313	53

* NOTE : RIPRAP TO BE OBTAINED OFF SITE FROM APPROVED SOURCE

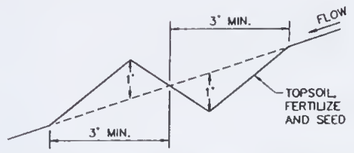


ROCK RIPRAP CHANNEL TYPICAL PROFILE

NO SCALE

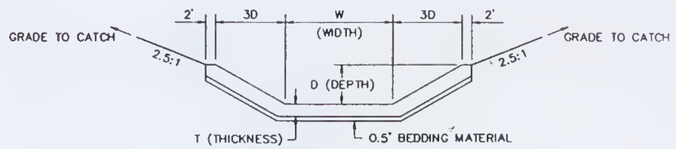
CHANNEL SCHEDULE

CHANNEL	STATION FROM	STATION TO	LENGTH	TOTAL WIDTH	DEPTH	TYPE
CH-1	0+00	1+96.4	196.4	16	2	TRAPEZOIDAL
CH-2	0+00	1+64.3	164.3	16	2	TRAPEZOIDAL
CH-3	0+00	2+40.3	240.3	12	2	TRIANGULAR
CH-4	0+00	2+89.2	289.2	12	2	TRIANGULAR
CH-5	0+00	3+90.7	390.7	16	2	TRAPEZOIDAL



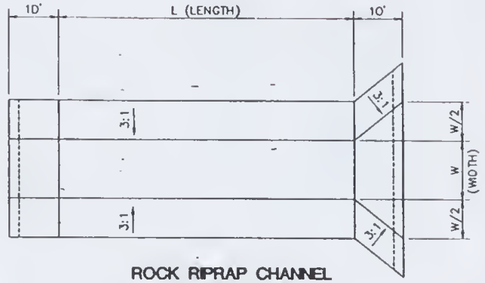
EROSION CONTROL CONTOUR DITCH

NO SCALE



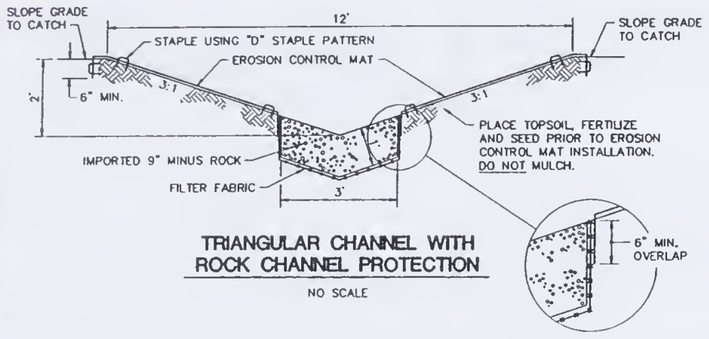
ROCK RIPRAP CHANNEL TYPICAL CROSS SECTION

NO SCALE



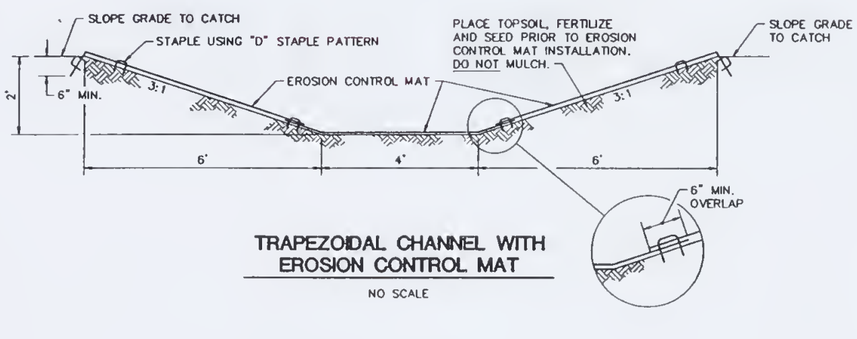
ROCK RIPRAP CHANNEL TYPICAL PLAN

NO SCALE



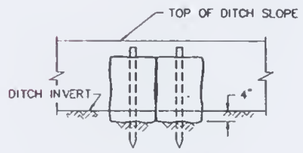
TRIANGULAR CHANNEL WITH ROCK CHANNEL PROTECTION

NO SCALE

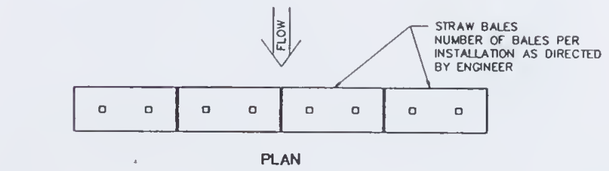


TRAPEZOIDAL CHANNEL WITH EROSION CONTROL MAT

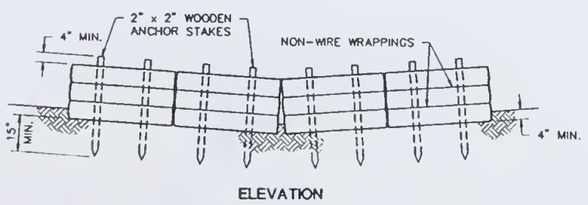
NO SCALE



SECTION A-A



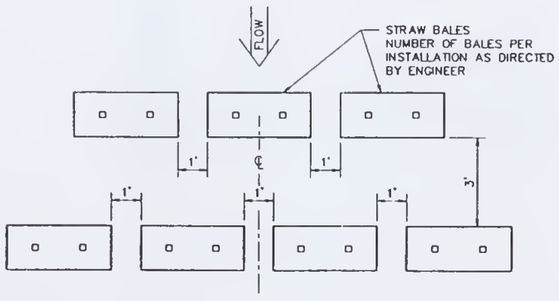
PLAN



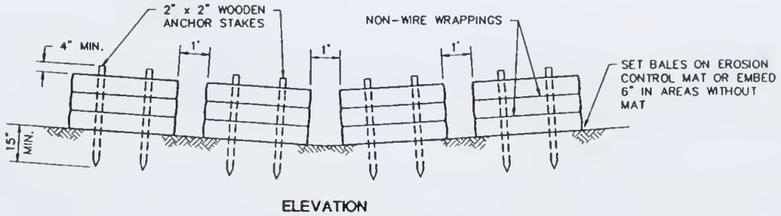
ELEVATION

STRAW BALE DIKE DETAIL

NO SCALE



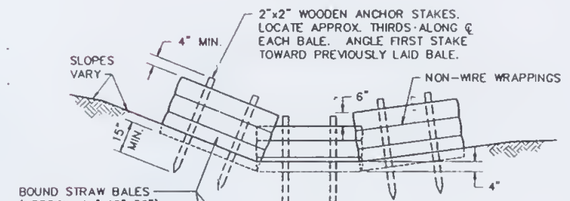
PLAN



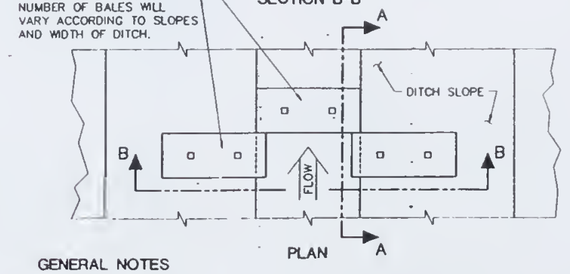
ELEVATION

EROSION CONTROL DETAIL

NO SCALE


2"x2" WOODEN ANCHOR STAKES. LOCATE APPROX. THIRDS ALONG ℄ EACH BALE. ANGLE FIRST STAKE TOWARD PREVIOUSLY LAID BALE.
4" MIN.
SLOPES VARY
NON-WIRE WRAPPINGS
6"
15" MIN.
4"

SECTION B-B



PLAN

GENERAL NOTES

1. FOR LOCATIONS OF STRAW BALES, REFER TO CONSTRUCTION PLANS.
2. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
3. "STRAW BALES" SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULLNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

STRAW BALE DITCH CHECK DETAIL

NO SCALE

Project No. 8M186.139 • SHT7.DWG • Date MAY 1993 • Designed GU • Drawn GE • Checked DN • Approved

No	Revision	By	Date

WARNING 0 ½ 1" IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

SMITH PIT MINE RECLAMATION
CARBON COUNTY, MONTANA

TYPICAL CHANNEL SECTIONS AND EROSION AND SEDIMENT CONTROL STRUCTURES

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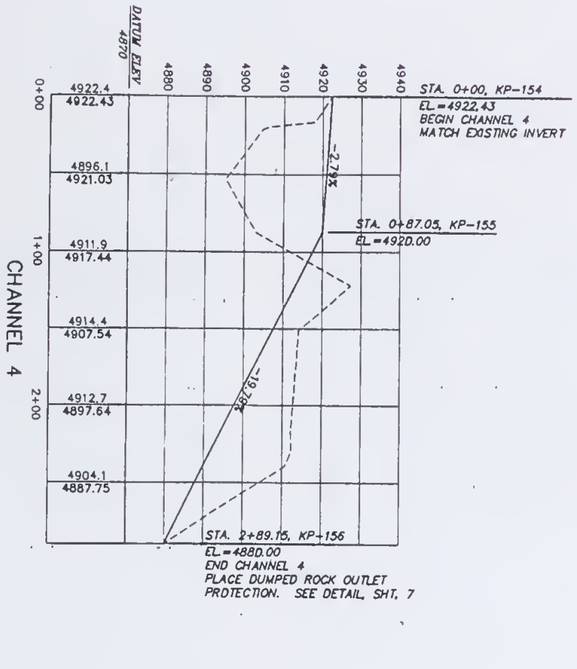
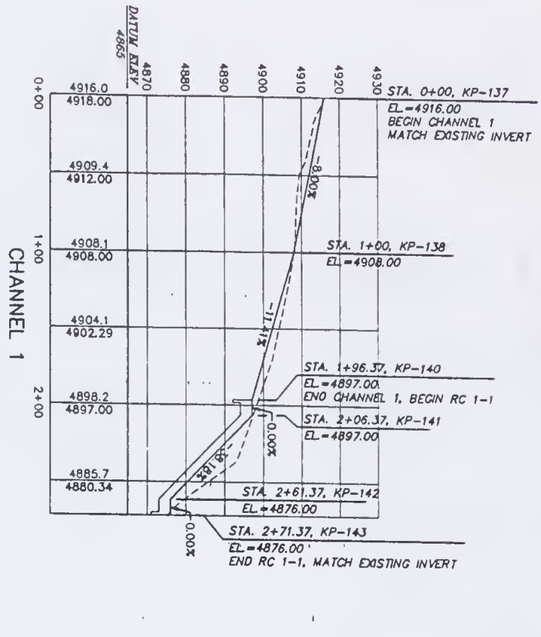
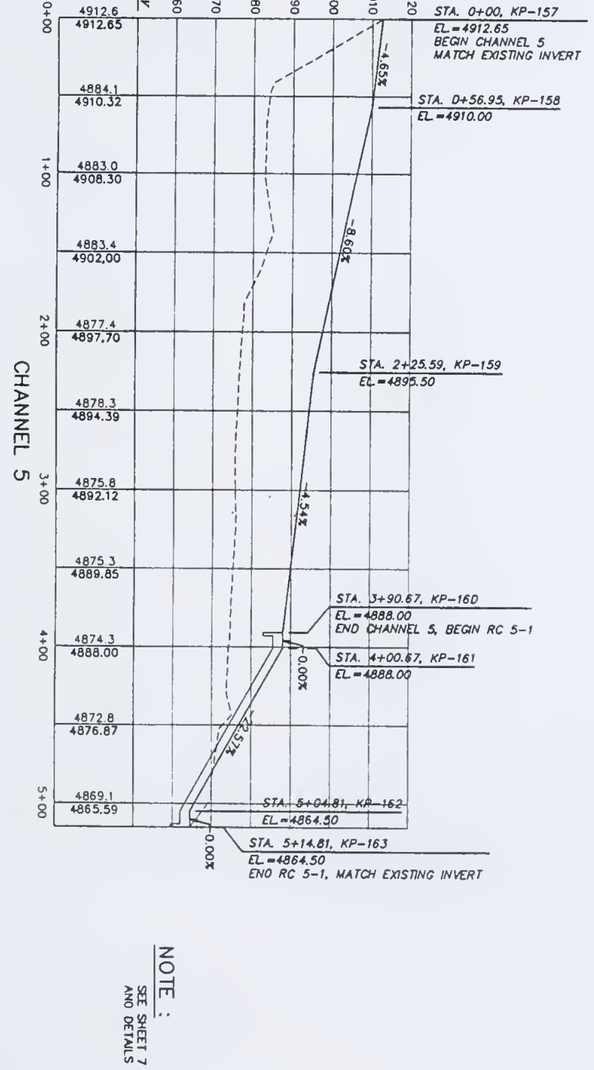
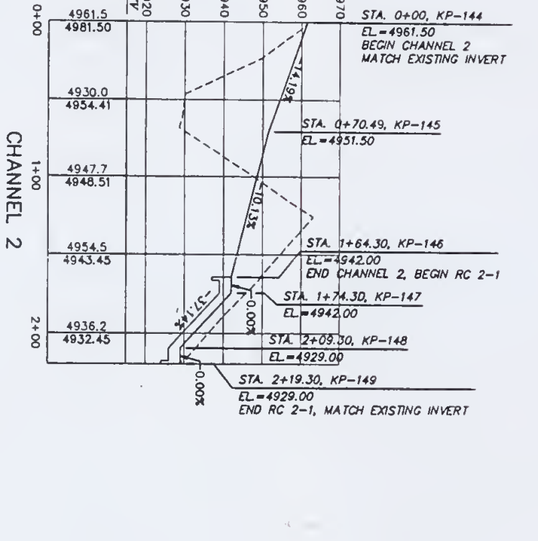
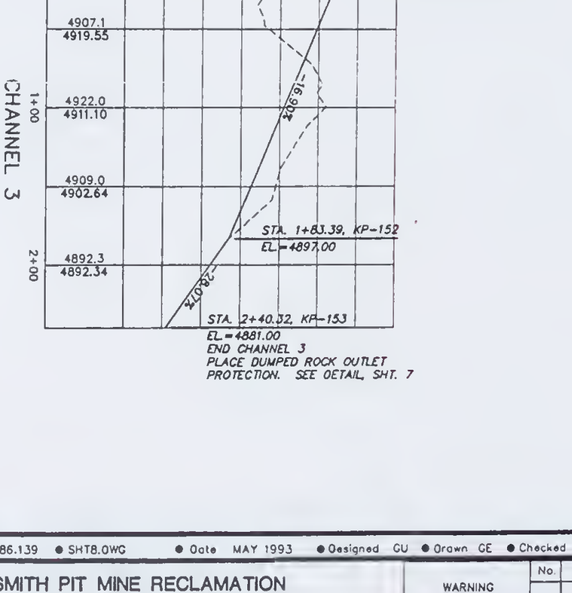
Sheet No. 7 of 16











NOTE:
SEE SHEET 7 FOR ALL CHANNEL SCHEDULES AND DETAILS

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● Project No. 8M186.139 ● SHT8.DWG ● Date MAY 1993 ● Designed GU ● Drawn GE ● Checked ON ● Approved

SMITH PIT MINE RECLAMATION
CARBON COUNTY, MONTANA

CHANNEL PROFILES

WARNING
0 ½ 1
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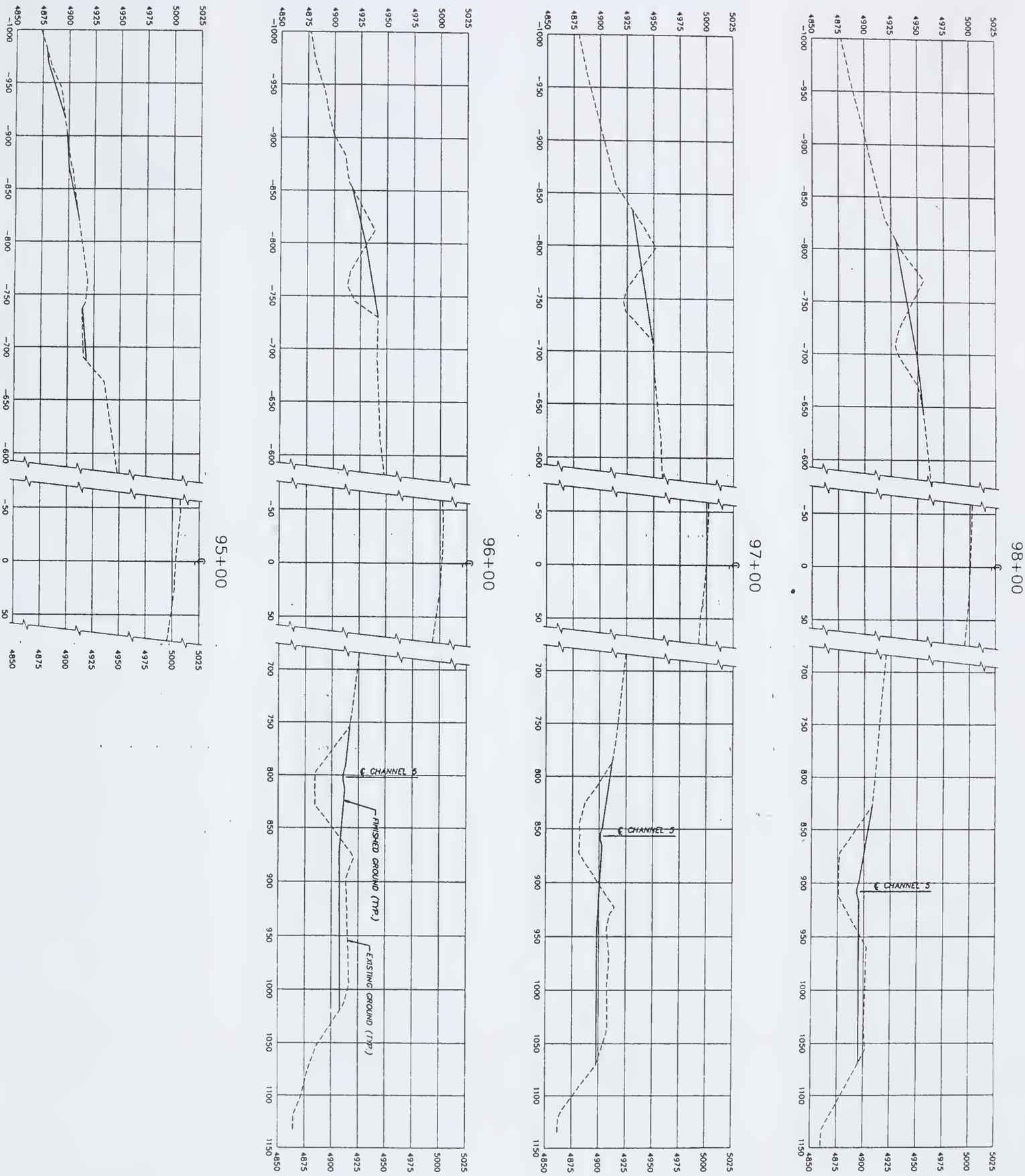
No.	Revision	By	Date



● Project No. 8M186.139 ● SHT9.DWG ● Date MAY 1993 ● Designed GU ● Drawn GE ● Checked DN ● Approved

Sheet No 9 of 16

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SMITH PIT MINE RECLAMATION
CARBON COUNTY, MONTANA

CROSS SECTIONS
STA. 95+00 TO STA. 98+00

WARNING
0 ½ 1
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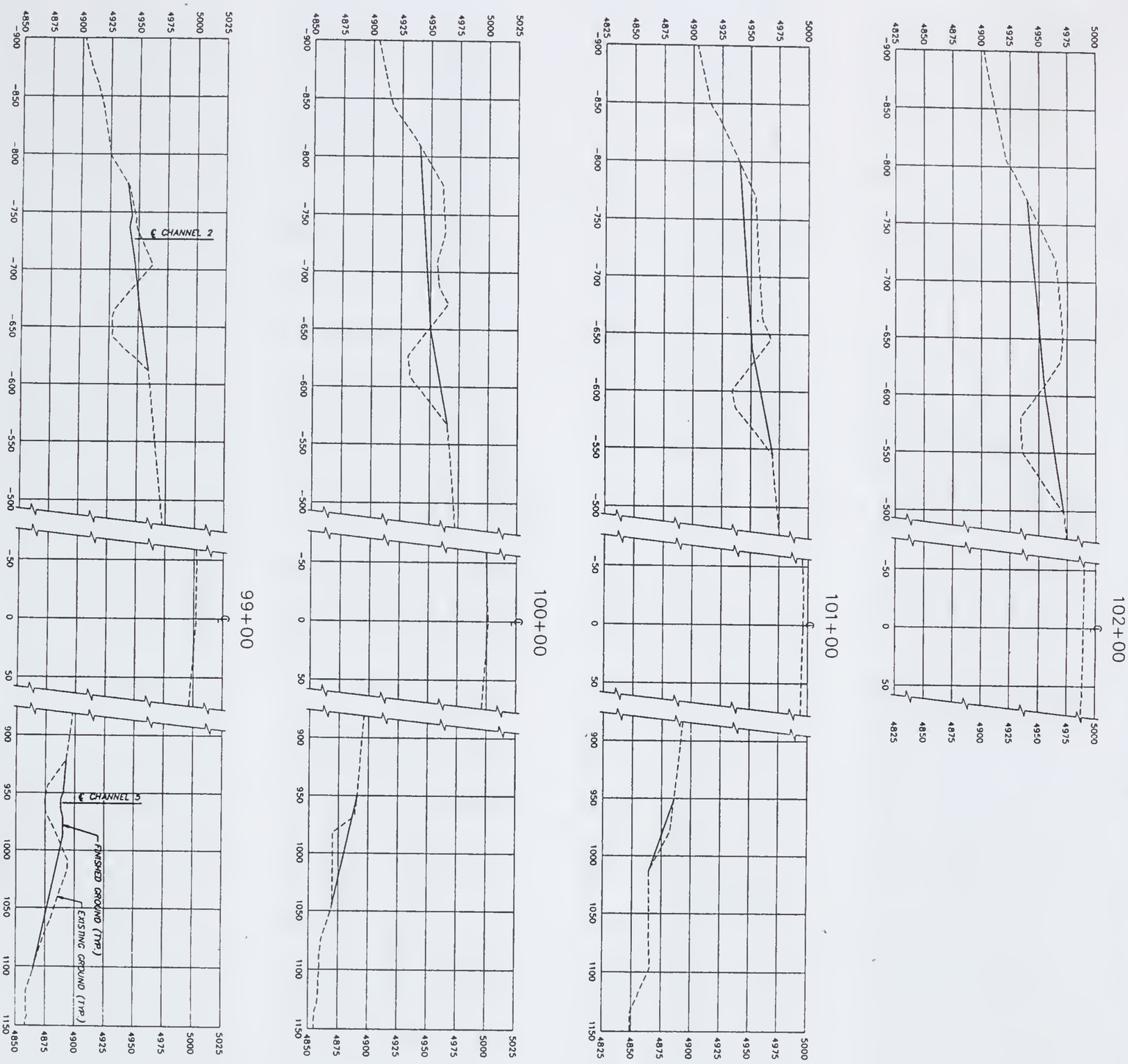
No.	Revision	By	Date



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Sheet No. 10 of 16

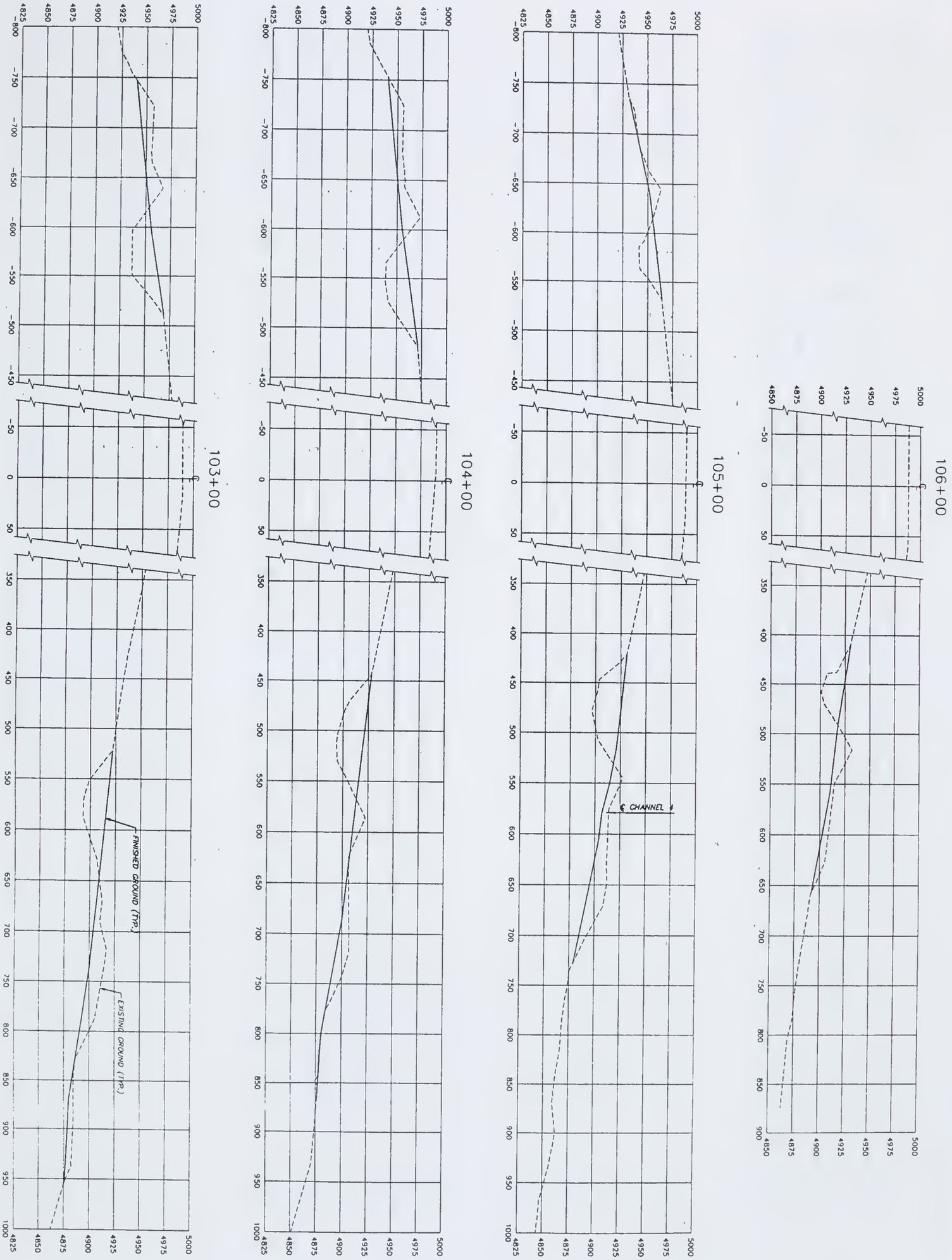
● Project No. 8M186.139 ● SHT10.DWG ● Date MAY 1993 ● Designed GU ● Drawn GE ● Checked DN ● Approved

SMITH PIT MINE RECLAMATION
CARBON COUNTY, MONTANA

CROSS SECTIONS
STA. 99+00 TO STA. 102+00

WARNING
0 ½
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

No.	Revision	By	Date



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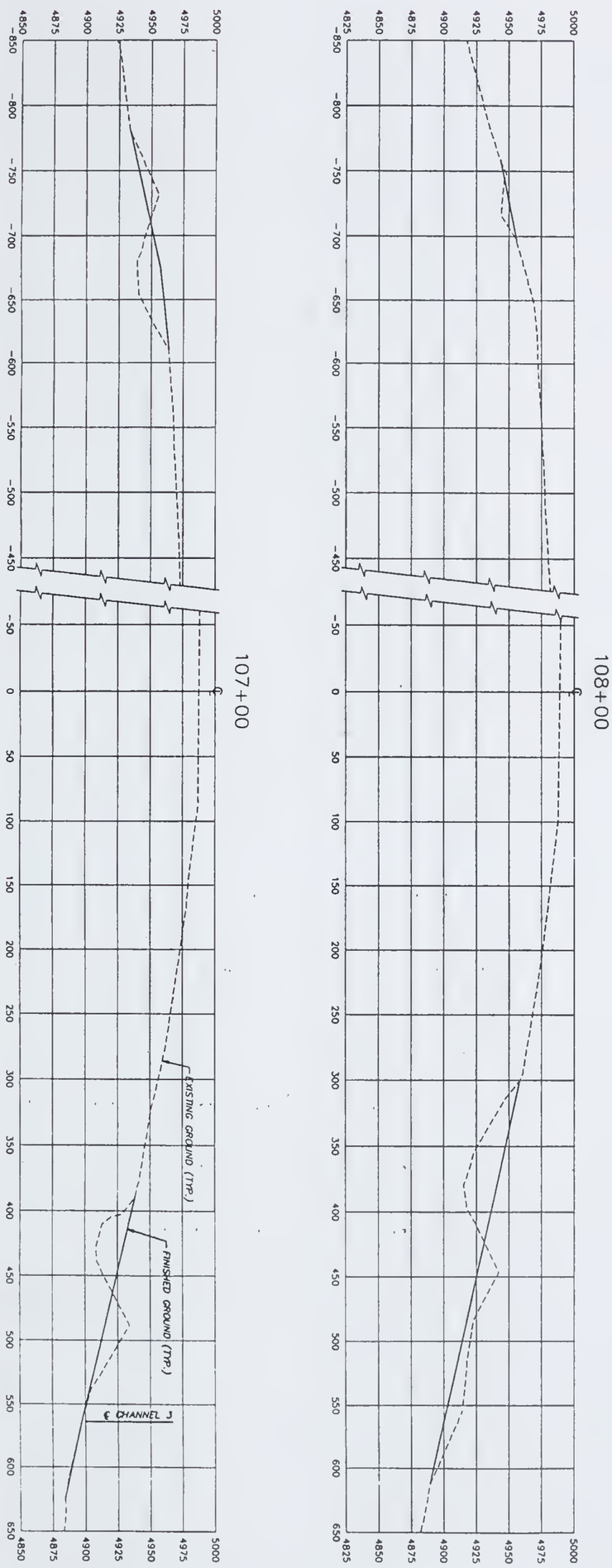
● Project No. 8M186.139 ● SHT11.DWG ● Date MAY 1993 ● Designed GU ● Drawn GE ● Checked DN ● Approved

SMITH PIT MINE RECLAMATION
CARBON COUNTY, MONTANA

CROSS SECTIONS
STA. 103+00 TO STA. 106+00

WARNING
0 ½ 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

No.	Revision	By	Date



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Sheet No 12 of 16

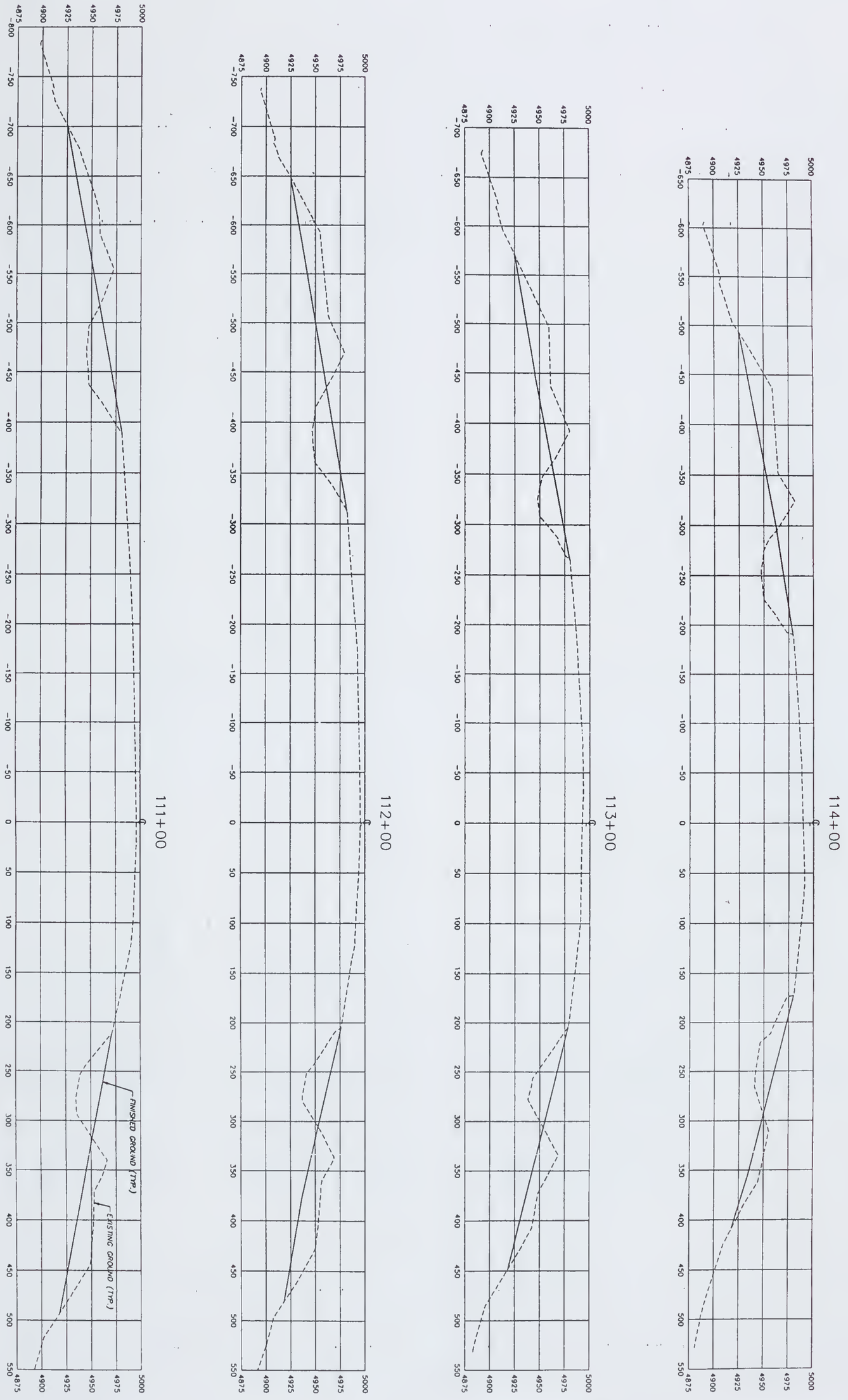
● Project No. 8M185.139 ● SHT12.DWG ● Date MAY 1993 ● Designed GU ● Drawn CE ● Checked DN ● Approved

SMITH PIT MINE RECLAMATION
CARBON COUNTY, MONTANA

CROSS SECTIONS
STA. 107+00 TO STA. 110+00

WARNING
0 ½ 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

No.	Revision	By	Date



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● Project No. 8M186.139 ● SHT13.DWG ● Date · MAY 1993 · ● Designed GU ● Drawn GE ● Checked DN ● Approved

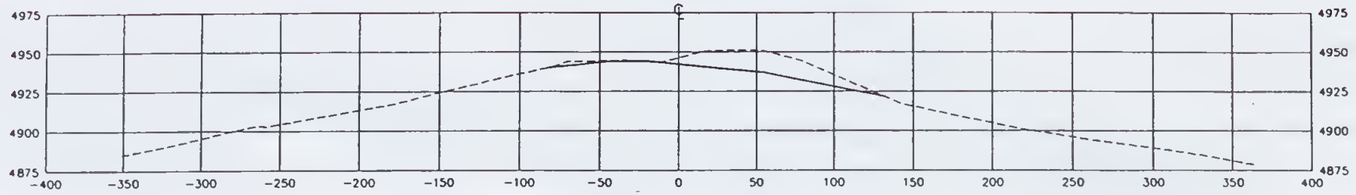
SMITH PIT MINE RECLAMATION
CARBON COUNTY, MONTANA

CROSS SECTIONS
STA. 111+00 TO STA. 114+00

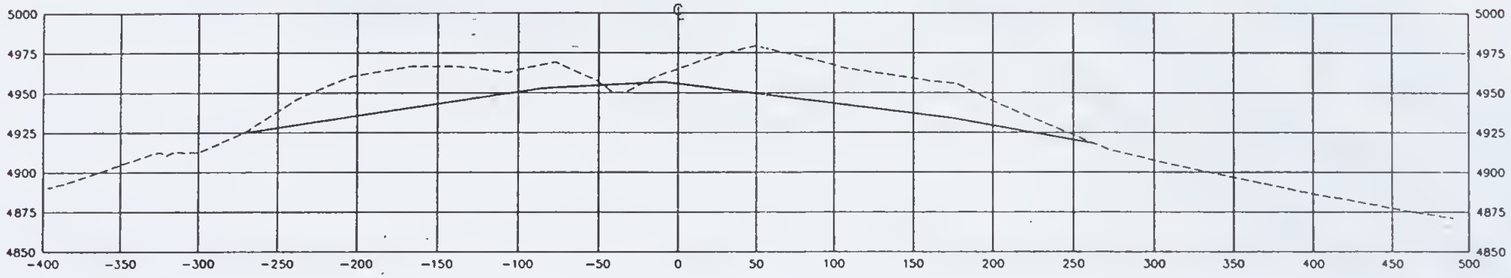
WARNING
0 ½ 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

No.	Revision	By	Date

118+00



117+00



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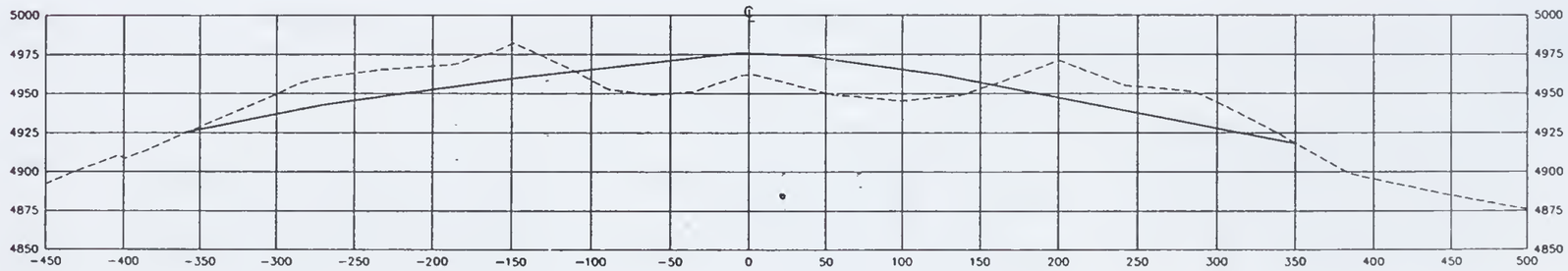
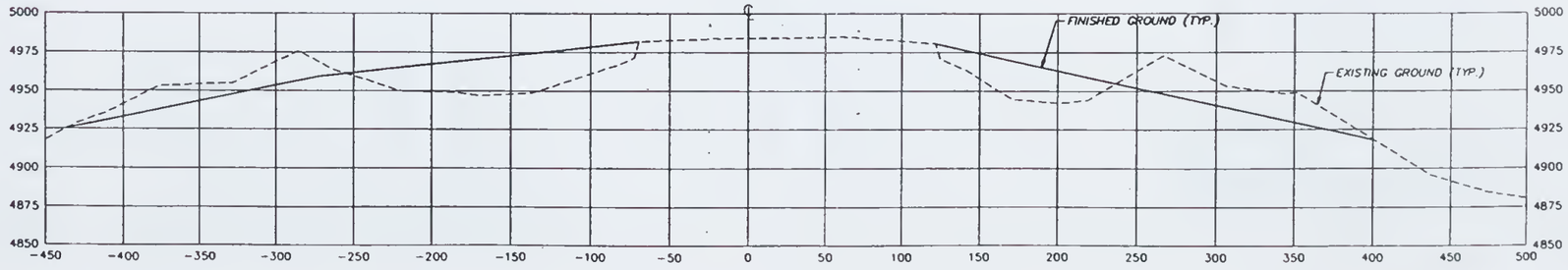


115+00



● Project No. BM186.139 ● SHT14.DWG ● Date MAY 1993 ● Designed GU ● Drawn GE ● Checked DN ● Approved

No.	Revision	By	Date

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

SMITH PIT MINE RECLAMATION
CARBON COUNTY, MONTANA

CROSS SECTIONS
STA. 115+00 TO STA. 118+00

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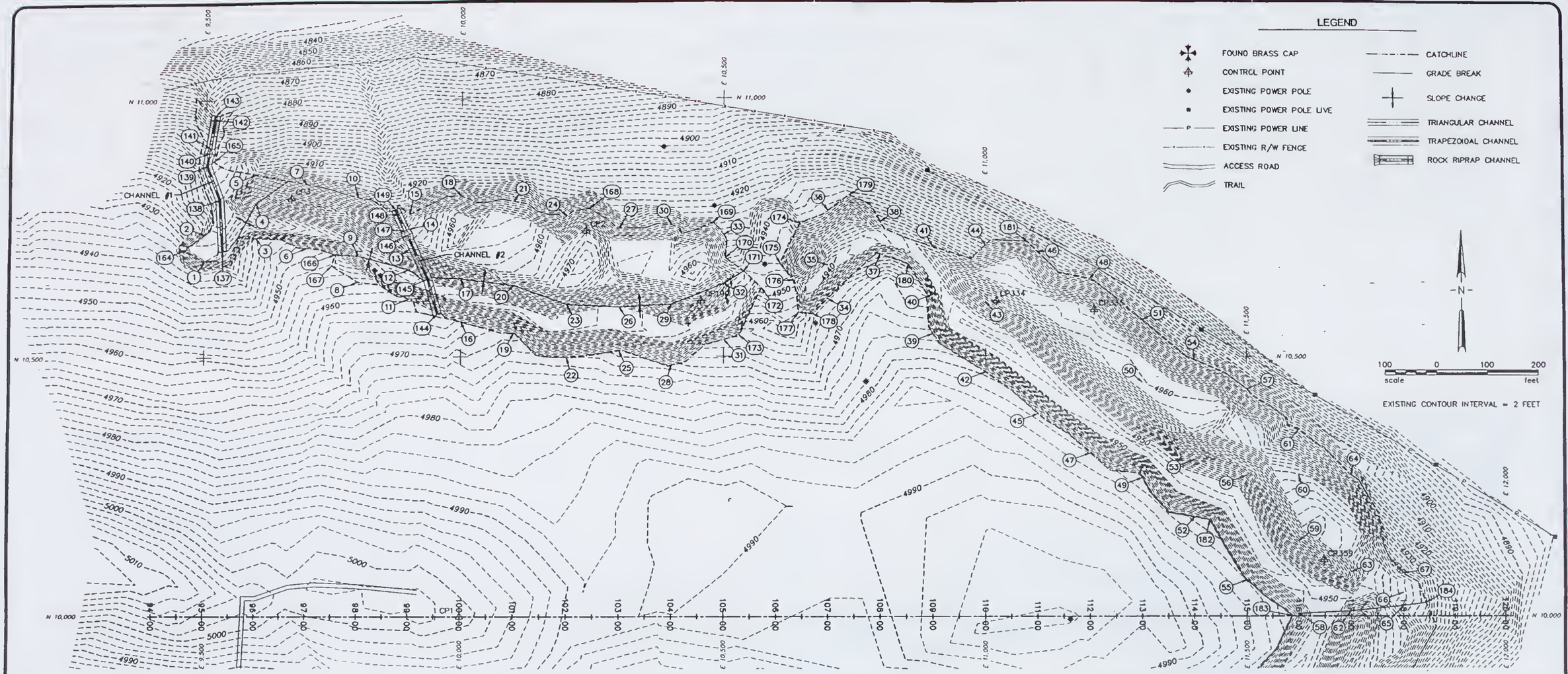

*KEY GRADE POINTS ON GRID STATIONS

	PT.#	OFFSET	NORTHING	EASTING	ELEVATION	GRADE
STA. 95+00	1	686.77 L	10686.77	9500.00	4918.00	
	2	737.83 L	10737.83	9500.00	4914.06	-0.07747
STA. 96+00	3	729.90 L	10729.90	9600.00	4941.63	
	4	798.00 L	10798.00	9600.00	4930.00	-0.17079
	5	853.31 L	10853.31	9600.00	4916.53	-0.24354
STA. 97+00	6	710.10 L	10710.10	9700.00	4948.77	
	7	834.15 L	10834.15	9700.00	4930.00	-0.15131
STA. 98+00	8	644.67 L	10644.67	9800.00	4955.52	
	9	695.00 L	10695.00	9800.00	4950.00	-0.10968
	10	808.27 L	10808.27	9800.00	4930.00	-0.17657
STA. 99+00	11	611.33 L	10611.33	9900.00	4959.56	
	12	668.00 L	10668.00	9900.00	4951.00	-0.15140
	13	707.81 L	10707.81	9900.00	4948.64	-0.10952
	14	746.95 L	10746.95	9900.00	4944.00	-0.06745
	15	775.22 L	10775.22	9900.00	4940.00	-0.14149
STA. 100+00	16	567.05 L	10567.05	10000.00	4965.03	
	17	650.00 L	10650.00	10000.00	4950.00	-0.16119
	18	809.79 L	10809.79	10000.00	4940.00	-0.06256
STA. 101+00	19	544.79 L	10544.79	10100.00	4969.01	
	20	637.00 L	10637.00	10100.00	4951.00	-0.19532
	21	799.47 L	10799.47	10100.00	4940.00	-0.06770
STA. 102+00	22	498.12 L	10498.12	10200.00	4972.12	
	23	600.00 L	10600.00	10200.00	4956.00	-0.15623
	24	770.80 L	10770.80	10200.00	4940.00	-0.09366
STA. 103+00	25	510.65 L	10510.65	10300.00	4968.96	
	26	595.00 L	10595.00	10300.00	4956.00	-0.15388
	27	747.43 L	10747.43	10300.00	4940.00	-0.10497
STA. 104+00	28	482.27 L	10482.27	10400.00	4971.06	
	29	600.00 L	10600.00	10400.00	4955.00	-0.13841
	30	755.34 L	10753.34	10400.00	4940.00	-0.09782
STA. 105+00	31	532.15 L	10532.15	10500.00	4964.38	
	32	640.00 L	10640.00	10500.00	4952.00	-0.11460
	33	734.67 L	10734.67	10500.00	4931.75	-0.21390
STA. 107+00	34	610.91 L	10610.91	10700.00	4963.61	
	35	675.00 L	10675.00	10700.00	4957.00	-0.10314
	36	780.07 L	10780.07	10700.00	4933.59	-0.22280
STA. 108+00	37	696.13 L	10696.13	10800.00	4956.03	
	38	758.67 L	10758.67	10800.00	4943.39	-0.20147
STA. 109+00	39	542.99 L	10542.99	10900.00	4974.67	
	40	618.00 L	10618.00	10900.00	4966.00	-0.11558
	41	710.51 L	10710.51	10900.00	4947.22	-0.20301
STA. 110+00	42	468.96 L	10468.96	11000.00	4979.42	
	43	604.00 L	10604.00	11000.00	4956.30	-0.17121
	44	713.32 L	10713.32	11000.00	4929.59	-0.17179
STA. 111+00	45	388.34 L	10388.34	11100.00	4961.13	
	46	700.94 L	10700.94	11100.00	4925.00	-0.17956
STA. 112+00	47	312.76 L	10312.76	11200.00	4961.86	
	48	648.31 L	10648.31	11200.00	4925.00	-0.16945
STA. 113+00	49	265.37 L	10265.37	11300.00	4980.07	
	50	449.00 L	10449.00	11300.00	4945.00	-0.19096
	51	569.92 L	10569.92	11300.00	4925.00	-0.16540
STA. 114+00	52	190.21 L	10190.21	11400.00	4979.21	
	53	300.00 L	10300.00	11400.00	4962.00	-0.15675
	54	493.25 L	10493.25	11400.00	4925.00	-0.19148
STA. 115+00	55	69.72 L	10069.72	11500.00	4961.69	
	56	270.00 L	10270.00	11500.00	4959.50	-0.11179
	57	436.56 L	10436.56	11500.00	4925.00	-0.20713
STA. 116+00	58	5.00 L	10005.00	11600.00	4978.00	
	59	145.00 L	10145.00	11600.00	4960.00	-0.11429
	60	270.00 L	10270.00	11600.00	4942.50	-0.14000
	61	359.25 L	10359.25	11600.00	4925.00	-0.19606
STA. 117+00	62	10.00 L	10010.00	11700.00	4957.00	
	63	65.00 L	10065.00	11700.00	4953.00	-0.05333
	64	271.19 L	10271.19	11700.00	4925.00	-0.15038
STA. 118+00	65	20.00 L	10020.00	11800.00	4944.20	
	66	46.00 L	10046.00	11800.00	4943.80	-0.01536
	67	63.03 L	10063.03	11800.00	4939.90	-0.10532

*KEY GRADE POINTS ON CHANNEL INVERTS

	PT.#	STATION	NORTHING	EASTING	ELEVATION
CHANNEL 1	137	0+00	10705.50	9534.33	4916.00
	138	1+00.00	10605.31	9526.16	4908.00
	139	1+70.88	10671.32	9502.66	4899.93
	140	1+96.37	10896.68	9507.00	4897.00
	141	2+08.37	10908.55	9508.61	4897.00
	142	2+61.37	10960.84	9517.43	4876.00
	143	2+71.37	10970.71	9519.03	4876.00
CHANNEL 2	144	0+00	10582.07	9955.10	4961.50
	145	0+70.49	10649.96	9938.10	4951.50
	146	1+64.30	10734.82	9896.12	4942.00
	147	1+74.30	10743.86	9891.86	4942.00
	148	2+09.30	10775.52	9878.94	4929.00
	149	2+19.30	10784.57	9872.68	4929.00

* ALL KEY GRADE POINT ELEVATIONS ARE FINAL GRADE INCLUDING TOPSOIL.

* ALL KEY GRADE POINTS ON CATCHLINE SHALL MATCH EXISTING GROUND AND MAY BE PLUS OR MINUS THE ELEVATION SHOWN.

*KEY GRADE POINTS (MISCELLANEOUS)

PT.#	NORTHING	EASTING	ELEVATION
164	10709.59	9485.44	4918.00
165	10679.74	9515.68	4902.00
166	10697.83	9755.50	4950.56
167	10675.93	9748.92	4952.27
168	10785.33	10242.20	4940.00
169	10758.47	10479.01	4930.00
170	10689.62	10502.96	4940.00
171	10664.09	10538.40	4946.12
172	10632.16	10572.01	4947.82
173	10540.49	10529.79	4963.62
174	10756.12	10645.96	4934.37
175	10678.04	10607.51	4943.77
176	10648.14	10633.31	4948.88
177	10583.74	10642.81	4956.04
178	10581.57	10670.42	4963.45
179	10610.16	10740.56	4931.51
180	10677.34	10853.30	4956.24
181	10720.47	11079.61	4925.00
182	10165.16	11428.69	4977.76
183	10001.17	11586.92	4978.72
184	10026.13	11643.42	4938.76

No.	Revision	By	Date

● Approved ● Checked DN ● Drawn GE ● Designed GU ● Date MAY 1993 ● SHT15.DWG ● Project No. 8M186.139

WARNING
0 ½
IF THIS BAR DOES NOT MEASURE ½" THEN DRAWING IS NOT TO SCALE

SMITH PIT MINE RECLAMATION
CARBON COUNTY, MONTANA

CONSTRUCTION STAKING NOTES - NORTH HALF

HKM ASSOCIATES
ENGINEERS·PLANNERS
2727 Central Avenue
P.O. Box 31318
Billings, Montana 59107
Branch Offices:
• Sheridan, Wyoming
• Bozeman & Miles City, Montana

Sheet No. 15 of 16

*KEY GRADE POINTS ON GRID STATIONS

	PT.#	OFFSET	NORTHING	EASTING	ELEVATION	GRADE
STA. 96+00	68	752.63 R	9247.37	9600.00	4918.84	
	69	790.54 R	9209.48	9600.00	4912.84	-0.10551
	70	813.46 R	9188.54	9600.00	4912.07	-0.03360
	71	873.00 R	9127.00	9600.00	4907.00	-0.08515
	72	1019.59 R	8980.41	9600.00	4907.95	+0.00648
STA. 97+00	73	768.06 R	9213.94	9700.00	4912.18	
	74	847.65 R	9152.35	9700.00	4903.38	-0.14321
	75	865.62 R	9134.38	9700.00	4902.68	-0.03895
	78	943.00 R	9057.00	9700.00	4898.00	-0.06022
	77	1069.68 R	8930.34	9700.00	4897.92	-0.00063
STA. 98+00	78	827.47 R	9172.53	9800.00	4907.74	
	79	898.76 R	9101.24	9800.00	4895.49	-0.03156
	80	918.73 R	9083.27	9800.00	4895.12	-0.02059
	81	1068.57 R	8931.43	9800.00	4895.27	+0.00099
STA. 99+00	82	921.34 R	9078.68	9900.00	4892.82	
	83	949.43 R	9050.57	9900.00	4890.42	-0.08544
	84	971.11 R	9028.89	9900.00	4890.00	-0.01937
	85	988.00 R	9012.00	9900.00	4890.00	-0.00000
	86	1102.98 R	8897.02	9900.00	4864.77	-0.21943
STA. 100+00	87	949.29 R	9050.71	10000.00	4890.79	
	88	1045.39 R	8954.81	10000.00	4889.54	-0.22112
STA. 101+00	89	951.06 R	9048.94	10100.00	4885.80	
	90	1013.55 R	8986.45	10100.00	4864.47	-0.34133
STA. 103+00	91	521.96 R	9478.02	10300.00	4922.14	
	92	738.00 R	9262.00	10300.00	4900.00	-0.10249
	93	870.00 R	9130.00	10300.00	4880.00	-0.15152
	94	952.90 R	9047.10	10300.00	4876.00	-0.04825
STA. 104+00	95	444.06 R	9555.92	10400.00	4927.82	
	96	685.00 R	9315.00	10400.00	4900.00	-0.11547
	97	800.00 R	9200.00	10400.00	4880.00	-0.17391
	98	868.07 R	9131.93	10400.00	4878.00	-0.05876
STA. 105+00	99	471.88 R	9578.12	10500.00	4930.94	
	100	515.00 R	9485.00	10500.00	4921.00	-0.10674
	101	550.66 R	9449.34	10500.00	4914.29	-0.18817
	102	607.38 R	9392.64	10500.00	4903.56	-0.18924
	103	730.69 R	9269.31	10500.00	4877.54	-0.21098
STA. 106+00	104	409.96 R	9590.04	10600.00	4930.62	
	105	490.00 R	9510.00	10600.00	4918.00	-0.15767
	106	559.00 R	9441.00	10600.00	4910.00	-0.11594
	107	658.58 R	9343.42	10600.00	4892.00	-0.18446
STA. 107+00	108	389.38 R	9610.62	10700.00	4938.42	
	109	555.57 R	9444.43	10700.00	4900.59	-0.22783
	110	604.88 R	9395.12	10700.00	4867.87	-0.25796
	111	624.99 R	9375.01	10700.00	4884.48	-0.18957
STA. 108+00	112	300.48 R	9699.54	10800.00	4958.37	
	113	618.51 R	9383.49	10800.00	4888.48	-0.22120
STA. 109+00	114	252.76 R	9747.24	10900.00	4967.48	
	115	546.04 R	9453.96	10900.00	4910.00	-0.19592
STA. 110+00	118	227.53 R	9772.47	11000.00	4972.13	
	117	511.58 R	9488.42	11000.00	4917.31	-0.19299
STA. 111+00	118	712.23 R	9787.77	11100.00	4971.06	
	119	492.69 R	9507.31	11100.00	4918.00	-0.18919
STA. 112+00	120	205.18 R	9794.82	11200.00	4975.85	
	121	377.00 R	9623.00	11200.00	4936.00	-0.23193
	122	450.54 R	9519.46	11200.00	4918.00	-0.17385
STA. 113+00	123	204.22 R	9795.76	11300.00	4978.50	
	124	448.61 R	9551.39	11300.00	4916.00	-0.24756
STA. 114+00	125	172.78 R	9827.24	11400.00	4980.11	
	126	356.00 R	9644.00	11400.00	4934.00	-0.25184
	127	408.62 R	9591.38	11400.00	4918.00	-0.30407
STA. 115+00	128	171.62 R	9828.38	11500.00	4980.54	
	129	400.30 R	9599.70	11500.00	4918.00	-0.22442
STA. 116+00	58	5.00 L	10005.00	11600.00	4978.00	
	130	38.00 R	9962.00	11600.00	4974.00	-0.06061
	131	125.00 R	9875.00	11600.00	4962.00	-0.13793
	132	350.28 R	9649.72	11600.00	4918.00	-0.19531
STA. 117+00	82	10.00 L	10010.00	11700.00	4957.00	
	133	175.00 R	N 9825.00	11700.00	4934.00	-0.13939
	134	262.73 R	N 9737.27	11700.00	4918.00	-0.18238
STA. 118+00	85	20.00 L	10020.00	11800.00	4944.20	
	135	55.00 R	N 9945.00	11800.00	4937.00	-0.20571
	138	130.95 R	N 9869.05	11800.00	4922.03	-0.19710

*KEY GRADE POINTS ON CHANNEL INVERTS

	PT.#	STATION	NORTHING	EASTING	ELEVATION
CHANNEL 3	150	0+00	9589.21	10653.58	4928.00
	151	0+85.40	9506.39	10632.75	4914.00
	152	1+83.39	9435.41	10700.31	4897.00
	153	2+40.32	9379.05	10706.38	4881.00
CHANNEL 4	154	0+00	9570.66	10462.35	4922.43
	155	0+87.05	9486.82	10485.75	4920.00
	156	2+89.15	9289.30	10528.52	4880.00
CHANNEL 5	157	0+00	9231.77	9567.10	4912.85
	158	0+58.95	9190.98	9606.83	4910.00
	159	2+25.59	9114.24	9757.00	4895.50
	160	3+90.67	9039.09	9903.98	4888.00
	161	4+00.67	9034.58	9912.90	4888.00
	182	5+04.81	8952.60	9977.15	4864.50
	183	5+14.81	8944.73	9983.32	4864.50

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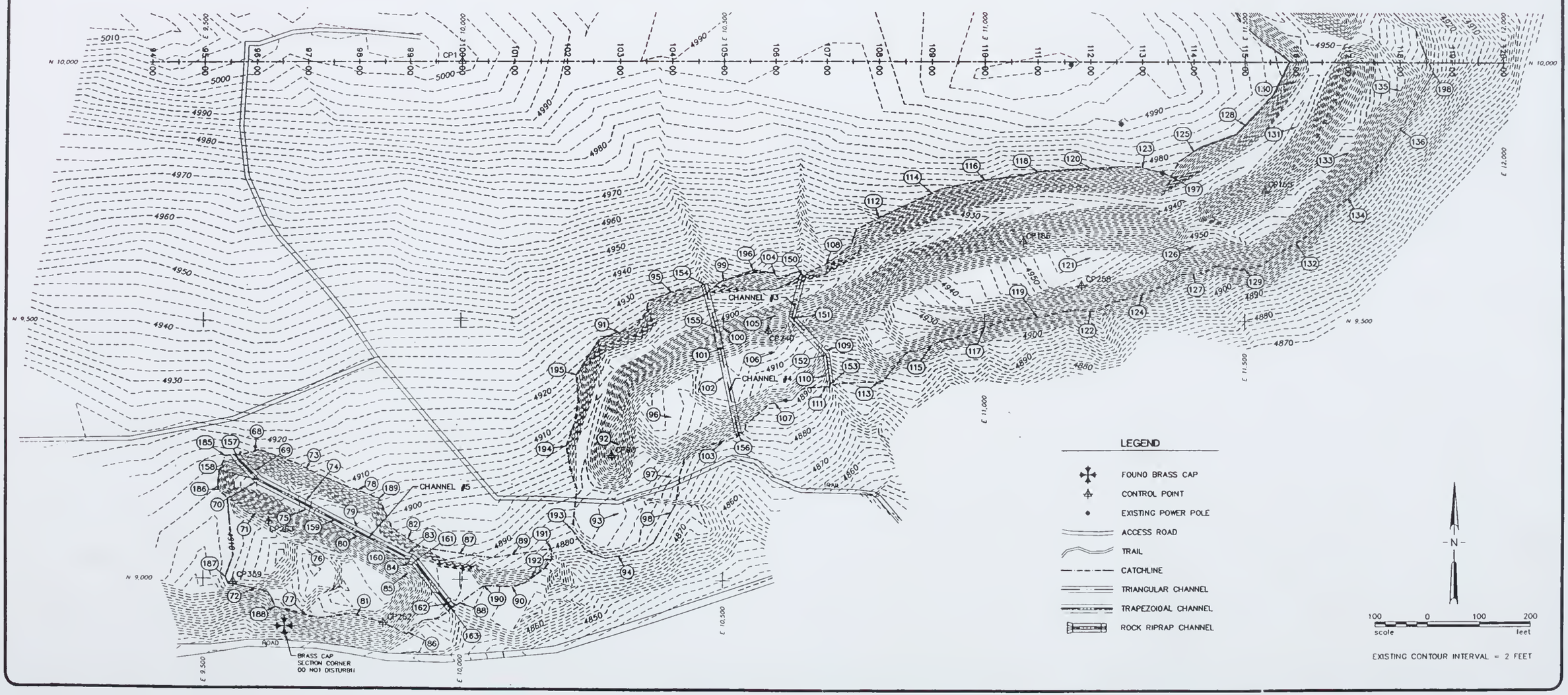
*KEY GRADE POINTS (MISCELLANEOUS)

PT.#	NORTHING	EASTING	ELEVATION
185	9238.20	9542.20	4914.00
186	9172.12	9528.17	4909.69
187	9002.95	9542.84	4910.00
188	8946.09	9638.63	4898.00
189	9157.23	9842.70	4904.88
190	8988.15	10045.45	4868.00
191	9060.97	10173.59	4880.00
192	9040.06	10174.71	4873.33
193	9097.23	10213.83	4862.19
194	9258.85	10201.26	4903.83
195	9396.32	10220.00	4918.26
196	9598.86	10556.99	4938.09
197	9779.70	11356.02	4974.57
198	9979.76	11863.28	4929.89



No.	Revision	By	Date

● Project No. BM188.139 ● SHT16.DWG ● Date MAY 1993 ● Designed GU ● Drawn GE ● Checked DN ● Approved

WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

SMITH PIT MINE RECLAMATION
CARBON COUNTY, MONTANA

CONSTRUCTION STAKING NOTES - SOUTH HALF

HKM ASSOCIATES
ENGINEERS·PLANNERS
2727 Central Avenue
P.O. Box 31318
Billings, Montana 59107

Branch Offices:
• Sheridan, Wyoming
• Bozeman & Miles City, Montana

Sheet No. 16 of 16

ATTACHMENT II
BID TABULATIONS

DSL/AMRB 90-003
DATE 7/6/93

CARBON COUNTY, MONTANA
SMITH PIT MINE

BID TABULATIONS				ENGINEER'S ESTIMATE		E. H. OFTEDAL & SONS, INC. Miles City, Montana		M. K. WEEDEN CONSTRUCTION Lewistown, Montana		MONTGOMERY CONSTRUCTION	
Item Number	Estimated Quantity	Unit	Description	Unit Price	Total Price						
1.	1	Lump	Mobilization	40,500.00	40,500.00	17,000.00	17,000.00	24,942.90	24,942.90	26,000.00	26,000.00
2.	200,200	C.Y.	Unclassified Excavation	1.90	380,380.00	.63	126,126.00	1.02 5	205,205.00	.87	174,174.00
3.	28,150	C.Y.	Topsoil Rehandling	2.25	63,337.50	.01	281.50	.72	20,268.00	.80	22,520.00
4.	10	C.Y.	Riprap Type I	35.00	350.00	25.00	250.00	40.00	400.00	35.00	350.00
5.	658	C.Y.	Riprap Type II	35.00	23,030.00	22.00	14,476.00	45.00	29,610.00	35.00	23,030.00
6.	110	C.Y.	Bedding Material	15.00	1,650.00	12.00	1,320.00	35.00	3,850.00	20.00	2,200.00
7.	59	C.Y.	Rock Channel Protection	25.00	1,475.00	23.00	1,357.00	38.25	2,256.75	30.00	1,770.00
8.	2,210	S.Y.	Erosion Control Mat	2.80	6,188.00	2.05	4,530.50	2.14	4,729.40	4.00	8,840.00
9.	300	S.Y.	Filter Fabric	2.00	600.00	1.48	444.00	2.53	759.00	4.00	1,200.00
10.	28	Acre	Revegetation	1,000.00	28,000.00	800.00	22,400.00	625.00	17,500.00	575.00	16,100.00
11.	150	Ton	Lime Application	45.00	6,750.00	70.00	10,500.00	150.00	22,500.00	46.00	6,900.00
12.	250	Each	Straw Bales for Erosion Control	12.00	3,000.00	10.00	2,500.00	6.25	1,562.50	10.00	2,500.00
13.	5,420	L.F.	Farm Fench Type F4M	1.00	5,420.00	1.10	5,962.00	1.33	7,208.60	1.45	7,859.00
14.	6	Each	Double Panels	110.00	660.00	100.00	600.00	95.00	570.00	100.00	600.00
15.	17	Each	Single Panels	70.00	1,190.00	80.00	1,360.00	75.00	1,275.00	80.00	1,360.00
16.	4	Each	Gate (16')	70.00	280.00	250.00	1,000.00	61.60	246.40	125.00	500.00
17.	200	L.F.	Silt Fence	1.50	300.00	1.15	230.00	1.50	300.00	10.00	2,000.00
18.	1	L.S.	Adit Blast Closure	1,000.00	1,000.00	750.00	750.00	1,500.00	1,500.00	2,000.00	2,000.00
							211,087.00		344,683.55		299,903.00

G:\RECLAM\AMRB\BID-TAB.TBL

DSL/AMRB 90-003
DATE 7/6/93

CARBON COUNTY, MONTANA
SMITH PIT MINE

BID TABULATIONS				ENGINEER'S ESTIMATE		COLEMAN CONSTRUCTION		A. M. WELLS Norris, Montana		SHUMAKER TRUCKING & EXCAVATING CONTRACTORS	
Item Number	Estimated Quantity	Unit	Description	Unit Price	Total Price						
1.	1	Lump	Mobilization	40,500.00	40,500.00	29,000.00	29,000.00	43,000.00	43,000.00	36,000.00	36,000.00
2.	200,200	C.Y.	Unclassified Excavation	1.90	380,380.00	.85	170,170.00	1.40	280,280.00	1.30	260,260.00
3.	28,150	C.Y.	Topsoil Rehandling	2.25	63,337.50	1.20	33,780.00	1.40	39,410.00	1.00	28,150.00
4.	10	C.Y.	Riprap Type I	35.00	350.00	50.00	500.00	37.00	370.00	27.50	275.00
5.	658	C.Y.	Riprap Type II	35.00	23,030.00	50.00	32,900.00	30.00	19,740.00	27.35	17,996.30
6.	110	C.Y.	Bedding Material	15.00	1,650.00	25.00	2,750.00	20.00	2,200.00	25.00	2,750.00
7.	59	C.Y.	Rock Channel Protection	25.00	1,475.00	50.00	2,950.00	39.50	2,330.50	24.00	1,416.00
8.	2,210	S.Y.	Erosion Control Mat	2.80	6,188.00	2.00	4,420.00	2.95	6,519.50	2.50	5,525.00
9.	300	S.Y.	Filter Fabric	2.00	600.00	2.00	600.00	1.95	585.00	2.00	600.00
10.	28	Acre	Revegetation	1,000.00	28,000.00	500.00	14,000.00	550.00	15,400.00	410.00	11,480.00
11.	150	Ton	Lime Application	45.00	6,750.00	50.00	7,500.00	100.00	15,000.00	98.00	14,700.00
12.	250	Each	Straw Bales for Erosion Control	12.00	3,000.00	10.00	2,500.00	7.90	1,975.00	12.00	3,000.00
13.	5,420	L.F.	Farm Fench Type F4M	1.00	5,420.00	2.50	13,550.00	1.00	5,420.00	.93	5,040.60
14.	6	Each	Double Panels	110.00	660.00	200.00	1,200.00	125.00	750.00	85.00	510.00
15.	17	Each	Single Panels	70.00	1,190.00	150.00	2,550.00	95.00	1,615.00	75.00	1,275.00
16.	4	Each	Gate (16')	70.00	280.00	300.00	1,200.00	45.00	180.00	144.00	576.00
17.	200	L.F.	Silt Fence	1.50	300.00	3.00	600.00	2.95	590.00	8.50	1,700.00
18.	1	L.S.	Adit Blast Closure	1,000.00	1,000.00	600.00	600.00	975.00	975.00	2,500.00	2,500.00
							320,770.00		436,340.00		393,753.90

DSL/AMRB 90-003
DATE 7/6/93

CARBON COUNTY, MONTANA
SMITH PIT MINE

BID TABULATIONS				ENGINEER'S ESTIMATE		HUPPERT BROTHERS CONSTRUCTION					
Item Number	Estimated Quantity	Unit	Description	Unit Price	Total Price						
1.	1	Lump	Mobilization	40,500.00	40,500.00	48,500.00	48,500.00				
2.	200,200	C.Y.	Unclassified Excavation	1.90	380,380.00	.98	196,196.00				
3.	28,150	C.Y.	Topsoil Rehandling	2.25	63,337.50	1.40	39,410.00				
4.	10	C.Y.	Riprap Type I	35.00	350.00	44.00	440.00				
5.	658	C.Y.	Riprap Type II	35.00	23,030.00	48.00	31,584.00				
6.	110	C.Y.	Bedding Material	15.00	1,650.00	25.00	2,750.00				
7.	59	C.Y.	Rock Channel Protection	25.00	1,475.00	51.00	3,009.00				
8.	2,210	S.Y.	Erosion Control Mat	2.80	6,188.00	2.90	6,409.00				
9.	300	S.Y.	Filter Fabric	2.00	600.00	2.50	750.00				
10.	28	Acre	Revegetation	1,000.00	28,000.00	700.00	19,600.00				
11.	150	Ton	Lime Application	45.00	6,750.00	360.00	54,000.00				
12.	250	Each	Straw Bales for Erosion Control	12.00	3,000.00	18.00	4,500.00				
13.	5,420	L.F.	Farm Fench Type F4M	1.00	5,420.00	1.75	9,485.00				
14.	6	Each	Double Panels	110.00	660.00	130.00	780.00				
15.	17	Each	Single Panels	70.00	1,190.00	88.00	1,496.00				
16.	4	Each	Gate (16')	70.00	280.00	150.00	600.00				
17.	200	L.F.	Silt Fence	1.50	300.00	6.00	1,200.00				
18.	1	L.S.	Adit Blast Closure	1,000.00	1,000.00	4,800.00	4,800.00				
							425,509.00				

G:\RECLAM\AMRB\BID-TAB.TBL

ATTACHMENT III

PAYMENT REQUESTS

RECEIVED
OCT - 8 1993

PAYMENT REQUEST NO. 1 HKM ASSOCIATES

FROM 9-1-93 TO 9-30-93

PROJECT TITLE: Smith Pit Reclamation

LOCATION: Carbon County MT MONT A/E or DSL/AMRB: 93-003

NAME OF CONTRACTOR: E.H. Oftedal and Sons Inc.

ADDRESS: P.O. Box 400 Miles City MT 59301

CHANGE ORDERS			CONTRACT STATUS			
No.	Description	Amount	Total Amount	Completed Amount	Uncompleted Amount	Percent Complete
			211,087.00	59,830.50	151,256.50	28
TOTAL CHANGE ORDERS						

CONTRACT TO DATE INCLUDING CHANGE ORDERS $211,087.00

*For use only when securities are on deposit in lieu of retainage.

TOTAL RETAINAGE $_____

SECURITIES ON DEPOSIT $_____

ADJUSTED RETAINAGE $_____

COMPLETED TO DATE	$ 59,830.50
PLUS MATERIALS ON SITE	$ —
TOTAL COMPLETED TO DATE	$ 59,830.50
LESS RETAINAGE	$ 5,983.05
TOTAL AMOUNT EARNED TO DATE	$ 53,847.45
LESS PREVIOUS PAYMENTS	$ —
AMOUNT DUE THIS PAYMENT	$ 53,847.45
LESS 1% TAX	$ 538.47
TOTAL DUE CONTRACT	$ 53308.98

I certify that this claim is correct and just in all respects and that payment or credit has not been received.

E.H. Oftedal and Sons Inc.
Contractor

BY: Jeffrey McDonell

DATE: 9-30-93

RECOMMENDED BY:

HKM Associates
Engineer

By Greg Underhill

Date 10-4-93

_____
Owner

BY _____

DATE _____

RESP. CNTR. 30131 222-940002-01

OBJ. EXP. 2121

APPROVAL Joe R Anderson

DATE 10-7-93

JR 10/6/93

ITEMIZATION OF QUANTITIES AND COSTS						
Item	Description	Estimated Plan Quantity	Unit Price Bid	Units of Work Completed To Date	Total Cost of Complete Work	Percent Complete
101	mobilization	1	17,000	1	17,000	100
102	Unclassified Ex	200,200	0.63	67,350	42,430.50	34
182	Straw Bales	250	10.00	40	400	16

SCHEDULE OF VALUES FOR CONTRACT PAYMENT

PROJECT TITLE: Smith Pit Mine Reclamation

MONT A/E or DSL-AMRB: 93-003

CONTRACTOR: E.H. Oftedal and Sons Inc.

Item No.	Description of Item	Quantity	Unit of Measure	Labor Cost	Materials Cost	Other Costs	Total Cost of Item	Cost Per Unit
101	Mobilization	1	LS				$17,000.00	17,000.00
102	Unclassified Exc	67,350	CY				42,430.50	.63
112	Straw Bales	40	EA				400.00	10.00

RECEIVED
NOV 10 [illegible]
HKM ASSOCIATES

PAYMENT REQUEST NO. 2

FROM 10-1-93 TO 10-31-93

PROJECT TITLE: Smith Pit Reclamation

LOCATION: Carbon County Mt MONT A/E or DSL/AMRB: 93-003

NAME OF CONTRACTOR: E.H. Oftedal and Sons Inc.

ADDRESS: P.O. Box 400 miles City Mt. 59301

CHANGE ORDERS			CONTRACT STATUS			
No.	Description	Amount	Total Amount	Completed Amount	Uncompleted Amount	Percent Complete
			211,087.00	137,100	73,987.00	65
TOTAL CHANGE ORDERS						

CONTRACT TO DATE INCLUDING CHANGE ORDERS $ 211,087.00

*For use only when securities are on deposit in lieu of retainage.

TOTAL RETAINAGE $ _____

SECURITIES ON DEPOSIT $ _____

ADJUSTED RETAINAGE $ _____

ok jk 11/8/93

COMPLETED TO DATE	$ 137,100.00
PLUS MATERIALS ON SITE	$ -0-
TOTAL COMPLETED TO DATE	$ 137,100.00
LESS RETAINAGE	$ 13,710.00
TOTAL AMOUNT EARNED TO DATE	$ 123,390.00
LESS PREVIOUS PAYMENTS	$ 53,847.45
AMOUNT DUE THIS PAYMENT	$ 69,542.55
LESS 1% TAX	$ 695.43
TOTAL DUE CONTRACT	$ 68,847.12

I certify that this claim is correct and just in all respects and that payment or credit has not been received.

E.H. Oftedal + Sons Inc.
Contractor

BY: [signature]

DATE: 11/1/93

RECOMMENDED BY:

HKM Associates
Engineer

By [signature]

Date 11/1/93

Owner

BY _____

DATE _____

RESP. CNTR. 30131 9400-2-01
OBJ. EXP. 2102
APPROVAL [signature]
DATE 11-8-93

ITEMIZATION OF QUANTITIES AND COSTS						
Item	Description	Estimated Plan Quantity	Unit Price Bid	Units of Work Completed To Date	Total Cost of Complete Work	Percent Complete
102	unclassified EX	200,200	0.63	190,000	119,700	*95
101	mobilization	1	17,000	1	17,000	100
102	Straw bales	250	10.00	40	400	16

File EM1-26.1/4 Construction

RECEIVED
JAN 10 1994

PAYMENT REQUEST NO. 3 HKM ASSOCIATES

FROM 10-31-93 TO 12-30-93

PROJECT TITLE: Smith Pit Reclamation

LOCATION: Carbon County Mt. **MONT A/E or DSL/AMRB:** 93-003

NAME OF CONTRACTOR: E. H. Oftedal and Sons INC.

ADDRESS: P.O. Box 400 miles City Mt. 59301

CHANGE ORDERS			CONTRACT STATUS			
No.	Description	Amount	Total Amount	Completed Amount	Uncompleted Amount	Percent Complete
			211,087.00	178,136.45	32,906	84
TOTAL CHANGE ORDERS						

CONTRACT TO DATE INCLUDING CHANGE ORDERS $211,087.00	**COMPLETED TO DATE** $178,136.45
*For use only when securities are on deposit in lieu of retainage.	**PLUS MATERIALS ON SITE** $ -0-
TOTAL RETAINAGE $	**TOTAL COMPLETED TO DATE** $178,136.45
SECURITIES ON DEPOSIT $	**LESS RETAINAGE** $ 17,813.65
ADJUSTED RETAINAGE $	**TOTAL AMOUNT EARNED TO DATE** $160,322.81
	LESS PREVIOUS PAYMENTS $123,390.00
	AMOUNT DUE THIS PAYMENT $ 36,932.81
	LESS 1% TAX $ 369.33
	TOTAL DUE CONTRACT $ 36,563.48

I certify that this claim is correct and just in all respects and that payment or credit has not been received.

E.H. Oftedal and Sons Inc.
Contractor

BY: Jeff McDonald

DATE: 1/3/94

RECOMMENDED BY:

HKM
Engineer

By Greg Underhill

Date 1/3/94

Owner

BY

DATE

RESP. CNTR 30131 940002 -01
OBJ. EXP. 2121
APPROVAL Lee R Claden
DATE 1-5-94

ITEMIZATION OF QUANTITIES AND COSTS

Item	Description	Estimated Plan Quantity	Unit Price Bid	Units of Work Completed To Date	Total Cost of Complete Work	Percent Complete
101	mobilization	1	17,000	1	17,000	100
102	Unclassified EV	200,200	0.63	219,925	138,592.44	100
103	Topsoil rehandling	28,150	0.01	8,746	87.46	100
104	Riprap TYPE I	10	25.00	10	250.00	100
105	Riprap TYPE II	658	35.00	609	13,398.00	100
106	Bedding material	110	12.00	103	1,236.00	100
107	Rock Channel Protection	59	23.00	60	1,380.00	100
108	Erosion Control mat	3,210	2.05	1,303	3,671.15	59
109	Filter Fabric	300	1.48	305	451.40	100
111	Lime Application	150	70.00	30	2,100.00	100
112	Straw Bales	250	90.00	97	970.00	90

SCHEDULE OF VALUES FOR CONTRACT PAYMENT

PROJECT TITLE: Smith Pit Reclamation

MONT A/E or DSL-AMRB: 93-003

CONTRACTOR: E. H. OFTEDAL and Sons INC.

Item No.	Description of Item	Quantity	Unit of Measure	Labor Cost	Materials Cost	Other Costs	Total Cost of Item	Cost Per Unit
							18,892.44	.63
2	Unclassified Ex	29,988	cy				87.41	0.01
3	Topsoil Rehandling	8,746	cy				250.	25.00
4	Riprap type I	610	CY				13,398	22.00
5	Riprap type II	609	CY					
6	Bedding material	103	CY				1,236	12.00
7	Rock Channel Protection	60.	CY				1,380	23.00
8	Erosion Control matt	1,303	SY				2,671.15	2.05
9	Filter fabric	305.	SY				451.40	1.48
11	Lime Application	30 +	Ton				2,100.	70.00
12	Straw bales	57	each				570.	10.00
	TOTALS						41,036.49	

I hereby certify that the costs of the work items noted above include an appropriate amount of overhead and profit applicable to each work item.

Signed by Jeff McDonald — Contractor — Date 1/3/94

Checked by Greg Underhill — Engineer — Date 1/3/94

Approved by Vic A Anderson — Owner — Date 1/5/94

Rev. 3/91

PAYMENT REQUEST NO. 4

FROM 12-30-93 TO 6-9-94

PROJECT TITLE: Smith Pit Reclamation

LOCATION: Carbon County, MT MONT A/E or DSL/AMRB: 93-003

NAME OF CONTRACTOR: E.H. Oftedal and Sons, Inc.

ADDRESS: P.O. Box 400 Miles City, MT 59301

CHANGE ORDERS			CONTRACT STATUS			
No.	Description	Amount	Total Amount	Completed Amount	Uncompleted Amount	Percent Complete
			211,087.00	212,913.95	10,645 70	100
TOTAL CHANGE ORDERS						

CONTRACT TO DATE INCLUDING CHANGE ORDERS	$ 211,087.00	COMPLETED TO DATE	$ 212,913.95
*For use only when securities are on deposit in lieu of retainage.		PLUS MATERIALS ON SITE	$ -0-
TOTAL RETAINAGE	$21290.40	TOTAL COMPLETED TO DATE	$ 212,913.95
SECURITIES ON DEPOSIT	$	LESS RETAINAGE	$ 21,291.40
ADJUSTED RETAINAGE	$10645.70	TOTAL AMOUNT EARNED TO DATE	$ 202,268.26
ok J Chw 7/12/94		LESS PREVIOUS PAYMENTS	$ 160,322.81
		AMOUNT DUE THIS PAYMENT	$ 41,945.45
		LESS 1% TAX	$ 419.45
		TOTAL DUE CONTRACT	$ 41,526.00

I certify that this claim is correct and just in all respects and that payment or credit has not been received.

E.H. Oftedal & Sons, Inc.
Contractor

BY: [signature]

DATE: 7-8-94

RECOMMENDED BY:

HKM Associates
Engineer

By Jack Knight

Date 7-11-94

Owner

BY Vic R Andersen

DATE 7-12-94 30131 34507-0004 P

RESP. CNTR.

OBJ. EXP. 2121

APPROVAL Vic R Andersen

DATE 7-13-94

ITEMIZATION OF QUANTITIES AND COSTS						
Item	Description	Estimated Plan Quantity	Unit Price Bid	Units of Work Completed To Date	Total Cost of Complete Work	Percent Complete
101	Mobilization	1	17,000	1	17,000	100
102	Unclassified Excavation	200,200	0.63	219,988	138,592.44	100
103	Topsoil Rehandling	28,150	.01	8,746	87.46	100
104	Rip Rap Type I	10	25.00	10	250.00	100
105	Rip Rap Type II	658	22.00	609	13,398.00	100
106	Bedding Material	110	12.00	103	1,236.00	100
107	Rock Channel Protection	59	23.00	60	1,380.00	100
108	Erosion Control Mat	2,210	2.05	1,563	3,204.15	100
109	Filter Fabric	300	1.48	305	451.40	100
110	Revegetation	28	800.00	30	24,000.00	100
111	Lime Application	150	70.00	30	2,100.00	100
112	Straw Bales	250	10.00	127	1,270.00	100
113	Farm Fence Type F4M	5,420	1.10	5,595	6,154.50	100
114	Double Panels	6	100.00	10	1,000.00	100
115	Single Panels	17	80.00	13	1,040.00	100
116	Gate (16')	4	250.00	4	1,000.00	100
117	Silt Fence	200	1.15	0	0.00	100
118	Adit Blast Closure	1	750.00	1	750.00	100
Completed to Date					212,913.95	100

SCHEDULE OF VALUES FOR CONTRACT PAYMENT

PROJECT TITLE: Smith Pit Reclamation

MONT A/E or DSL-AMRB: 93-003

CONTRACTOR: EF Oftedal and Sons, Inc

Item No.	Description of Item	Quantity	Unit of Measure	Labor Cost	Materials Cost	Other Costs	Total Cost of Item	Cost Per Unit
108	Erosion Control Mat	260	SY				533.00	2.05
110	Revegetation	30	Acre				24,000	800.00
112	Straw Bales	30	Ea.				300	10.00
113	Farm Fence	5,595	L.F.				6,154.50	1.10
114	Double Panels	10	Ea.				1,000	100 00
115	Single Panels	13	Ea.				1,040	80.00
116	Gate (16')	4	Ea.				1,000	250.00
118	Adit Blast Closure	1	LS				750	750.00
	TOTALS						34,777.50	

ok JAy 7/12/94

I hereby certify that the costs of the work items noted above include an appropriate amount of overhead and profit applicable to each work item.

Signed by _____ Contractor _____ 7-8-94 Date

Checked by _____ Engineer _____ 7-11-94 Date

Approved by _____ Owner _____ 7-12-94 Date

PAYMENT REQUEST NO. 5 (final)

FROM 6-9-94 TO 8-9-94

PROJECT TITLE: Smith Pit Reclamation

LOCATION: Carbon County, MT MONT A/E or DSL/AMRB: 93-003

NAME OF CONTRACTOR: E.H. Oftedal and Sons, Inc.

ADDRESS: P.O. Box 400 Miles City, MT 59301

CHANGE ORDERS			CONTRACT STATUS			
No.	Description	Amount	Total Amount	Completed Amount	Uncompleted Amount	Percent Complete
			211,087.00	212,913.95		100
TOTAL CHANGE ORDERS						

CONTRACT TO DATE INCLUDING CHANGE ORDERS	$ 211,087.00	COMPLETED TO DATE	$ 212,913.95
*For use only when securities are on deposit in lieu of retainage.		PLUS MATERIALS ON SITE	$ -0-
TOTAL RETAINAGE	$21290.40	TOTAL COMPLETED TO DATE	$ 212,913.95
SECURITIES ON DEPOSIT	$	LESS RETAINAGE	$ 21,291.40
ADJUSTED RETAINAGE	$21290.40	TOTAL AMOUNT EARNED TO DATE	$ 212,913.95
		LESS PREVIOUS PAYMENTS	$ 202.268.26
		AMOUNT DUE THIS PAYMENT	$ 10,645.69
		LESS 1% TAX	$ 106.46
		TOTAL DUE CONTRACT	$ 10,539.23

I certify that this claim is correct and just in all respects and that payment or credit has not been received.

E.H. Oftedal & Sons, Inc.
Contractor

BY: Ray D. Jones

DATE: 8/5/94

RECOMMENDED BY:

HKM Associates
Engineer

By Joel Kriedt

Date 8/11/94

Owner

BY

DATE 8/18/94

RESP. CNTR. 30131 3450 7-0002 F

OBJ. EXP. 2121

APPROVAL Vic R Anderson

DATE 8-19-94

ATTACHMENT IV

PROJECT CLOSE-OUT PAPER WORK

CERTIFICATE OF ACCEPTANCE

TO: State of Montana - Montana Department of State Lands OWNER

PROJECT TITLE: Smith Pit Mine

MONT A/E or DSL-AMRB: 93-003

CONTRACT DATE: August 16th 1993

LOCATION: Carbon County

PROJECT OR PART SHALL INCLUDE: All Bid Items

CONTRACTOR: E.H. Oftedal & Sons, Inc.

ADDRESS: P.O. Box 400
Miles City, MT 59301

TELEPHONE NO: 406-232-5911

FINAL ACCEPTANCE DATE: 7-29-94

DSL INSPECTION DATE:

ENGINEER: HKM Associates

PERFORMANCE BOND NO: 4673090

DATE OF BOND: 9-01-93

SURETY: Hartford Accident & Indemity Co.

MONTANA AGENT: Flynn Insurance Agency

ADDRESS: Box 711
Great Falls, Montana

The Work performed under this Contract has been inspected by authorized representatives of the Owner, Contractor, and Engineer, and the Project (or specified part of the Project, as indicated above) is hereby declared to be totally completed and accepted on the above date.

ENGINEER: HKM Associates

By Joel Friedt 8/11/94
Authorized Representative Date

The Contractor accepts the above Certificate of Acceptance and agrees to abide by the conditions of the one-year warranty period which began on the substantial completion date.

CONTRACTOR: E.H. Oftedal & Sons, Inc.

By [signature] 8/5/94
Authorized Representative Date

The Owner accepts the Project as totally complete, and final payment is due to the Contractor as provided in the contract documents.

OWNER: Montana Department of State Lands

By Vic R Anderson 8/19/94
Authorized Representative Date

ok J Chmy
8/18/94

Rev. 3/91

CONTRACTOR'S CERTIFICATE OF COMPLETION

TO (Owner): Montana Department of State Lands

DATE: _____

PROJECT TITLE: Smith Pit Mine Reclamation

MONT A/E or DSL-AMRB: _____

ATTN: Engineer HKM Associates

CONTRACT DATE: August 16th 1993

FROM: E.H. Oftedal & Sons, Inc.
(Firm or Corporation)

This is to certify that I, RAY H. JAMES, am an authorized official of E. H. OFTEDAL & SONS, INC., working in the capacity of SECRETARY/TREASURER and have been properly authorized by said firm or corporation to sign the following statements pertaining to the subject contract:

I know of my own personal knowledge, and do hereby certify, that the work of the contract described above has been performed, and materials used and installed in every particular, in accordance with, and in conformity to, the Contract Plans and Specifications.

The contract work is now complete in all parts and requirements and ready for your final inspection.

I understand that neither the determination of the Engineer that the work is complete nor the acceptance thereof by the Owner shall operate as a bar to claim against the Contractor under the terms of the guarantee provisions of the Contract Documents.

CONTRACTOR: E.H. Oftedal & Sons, Inc.

By: Ray H James
Sec/Treas
Title

Distribution:
1. Project Manager
2. Field Office
3. File

Rev. 7/90

August 5, 1994

Joel Friedt
HKM Associates
P. O. Box 31318
Billings, Mt 59107

Gentlemen

This is to certify that all applicable wage rates have been complied with on the Smith Pit Reclamation Project No. 93-003.

Sincerely

E. H. Oftedal & Sons, Inc.

Ray H. James
Sec/Treas

AFFIDAVIT ON BEHALF OF CONTRACTOR

STATE OF Montana)
: ss
COUNTY OF Carbon)

MONT A/E or DSL-AMRB: 93-003

DATE: _____

I certify to the best of my knowledge and belief that all work has been performed and materials supplied in strict conformance with the terms and conditions of the corresponding contract documents between Montana Deptment of State Lands, the Owner, and E.H. Oftedal & Sons, Inc., the Contractor, dated August 16th 1993 for the Smith Pit Mine Reclamation Project, Mont A/E or DSL-AMRB 93-003, and further declare that all bills for materials, supplies, utilities, and for all other things furnished or caused to be furnished by the above-named Contractor and used in the execution of the above Contract have been fully paid, and there are no unpaid claims or demands of State Agencies, subcontractors, materialmen, mechanics, laborers or any others resulting from or arising out of work done or ordered to be done by said Contractor under the above-identified Contract.

In consideration of the prior and final payments made and all payments made for authorized changes, the Contractor releases and forever discharges the Owner from any and all obligations and liabilities arising by virtue of said Contract and authorized changes between the parties hereto, either verbal or in writing, and any and all claims and demands of every kind and character whatsoever against the Owner, arising out of or in any way relating to said Contract, and authorized changes.

This statement is made for the purpose of inducing the Owner to make Final Payment under the terms of the Contract, relying on the truth and statements contained therein.

Dated this 18th day of JULY, 1994, at MILES CITY, Montana.

CONTRACTOR: _____

By: Ray H Jones
Title: Sec/Treas.

Subscribed and sworn to before me this 18 day of July, 1994.

Helen Kellen
Notary Public for the State of Montana
Residing at Miles City
My commission expires 12/20/97

(SEAL)

HARTFORD ACCIDENT AND INDEMNITY COMPANY

Hartford, Connecticut

POWER OF ATTORNEY

Know all men by these Presents, That the HARTFORD ACCIDENT AND INDEMNITY COMPANY, a corporation duly organized under the laws of the State of Connecticut, and having its principal office in the City of Hartford, County of Hartford, State of Connecticut, does hereby make, constitute and appoint

LISA W. ANDERSON, TONI L. PHELPS and SANDRA K. KIRK of BILLINGS, MONTANA
GORDON D. McMANUS, JOHN D. LEAF, CINDY S. REIQUAM and MARK S. NICHOLLS
of GREAT FALLS, MONTANA

its true and lawful Attorney(s)-in-Fact, with full power and authority to each of said Attorney(s)-in-Fact, if more than one is named above, to sign, execute and acknowledge any and all bonds and undertakings on behalf of the company in its business of guaranteeing the fidelity of persons holding places of public or private trust; guaranteeing the performance of contracts other than insurance policies; guaranteeing the performance of insurance contracts where surety bonds are accepted by states and municipalities, and executing or guaranteeing bonds and undertakings required or permitted in all actions or proceedings or by law allowed, ----------

and to bind the HARTFORD ACCIDENT AND INDEMNITY COMPANY thereby as fully and to the same extent as if such bonds and undertakings and other writings obligatory in the nature thereof were signed by an Executive Officer of the HARTFORD ACCIDENT AND INDEMNITY COMPANY and sealed and attested by one other of such Officers, and hereby ratifies and confirms all that its said Attorney(s)-in-Fact may do in pursuance hereof.

This power of attorney is granted by and under authority of the following provisions:

(1) By-Laws adopted by the Stockholders of the HARTFORD ACCIDENT AND INDEMNITY COMPANY at a meeting duly called and held on the 10th day of February, 1943.

ARTICLE IV

SECTION 8. The President or any Vice-President, acting with any Secretary or Assistant Secretary, shall have power and authority to appoint, for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, one or more Resident Vice-Presidents, Resident Assistant Secretaries and Attorneys-in-Fact and at any time to remove any such Resident Vice-President, Resident Assistant Secretary, or Attorney-in-Fact, and revoke the power and authority given to him.

SECTION 11. Attorneys-in-Fact shall have power and authority, subject to the terms and limitations of the power of attorney issued to them, to execute and deliver on behalf of the Company and to attach the seal of the Company thereto any and all bonds and undertakings, and other writings obligatory in the nature thereof, and any such instrument executed by any such Attorney-in-fact shall be as binding upon the Company as if signed by an Executive Officer and sealed and attested by one other of such Officers.

In Witness Whereof, the HARTFORD ACCIDENT AND INDEMNITY COMPANY has caused these presents to be signed by its Vice-President, and its corporate seal to be hereto affixed, duly attested by its Secretary, this 8th day of May, 1992.

Attest: HARTFORD ACCIDENT AND INDEMNITY COMPANY

Richard R. Hermanson
Secretary

Robert N. H. Sener
Vice President

STATE OF CONNECTICUT } ss.
COUNTY OF HARTFORD }

On this 8th day of May, A.D. 1992, before me personally came Robert N. H. Sener, to me known, who being by me duly swom, did depose and say: that he resides in the County of Hartford, State of Connecticut; that he is the Vice President of the HARTFORD ACCIDENT AND INDEMNITY COMPANY, the corporation described in and which executed the above instrument; that he knows the seal of the said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation and that he signed his name thereto by like order.

STATE OF CONNECTICUT } ss.
COUNTY OF HARTFORD }

Jean H. Wozniak
Notary Public
My Commission Expires March 31, 1994

CERTIFICATE

I, the undersigned, Assistant Secretary of the HARTFORD ACCIDENT AND INDEMNITY COMPANY, a Connecticut Corporation, DO HEREBY CERTIFY that the foregoing and attached POWER OF ATTORNEY remains in full force and has not been revoked; and furthermore, that Article IV, Sections 8 and 11 of the By-Laws of the Company, and the Resolutions of the Board of Directors, set forth in the Power of Attorney, are now in force.

Signed and sealed at the City of Hartford. Dated the 18TH day of JULY 19 94

David A. Johnson
Assistant Secretary

Form S-4054-0 Printed in U.S.A.

CONSENT OF SURETY COMPANY TO FINAL PAYMENT

(From AIA Document G707)

OWNER ☐
ENGINEER ☐
CONTRACTOR ☐
SURETY ☐
OTHER

PROJECT: Smith Pit Mine Reclamation
(name, address)

TO (Owner)
State of Montana acting by and through the Commissioner
Dept. of State Lands
1625 Eleventh Avenue
Helena, MT 59620

MONT A/E or DSL-AMRB NO.: 93-003

CONTRACT FOR:
Smith Pit Mine Reclamation

CONTRACT DATE:
August 16th 1993

CONTRACTOR:
E.H. Oftedal and Sons, Inc.
P.O. Box 400
Miles City, MT 59301

In accordance with the provisions of the Contact between the Owner and the Contractors indicated above, the HARTFORD ACCIDENT AND INDEMNITY COMPANY (here insert name and address of Surety Company), SURETY COMPANY, on bond of E.H. OFTEDAL & SONS, INC. (here insert name and address of Contractor), CONTRACTOR, hereby approves of the final payment to the Contractor, and agrees that final payment to the Contractor shall not relieve the Surety Company of any of its obligations to STATE OF MONTANA (here insert name and address of Owner), OWNER, as set forth in the said Surety Company's bond.

IN WITNESS WHEREOF, the Surety Company has hereunto set its hand this 18TH day of JULY, 1994.

HARTFORD ACCIDENT AND INDEMNITY COMPANY
Surety Company

Cindy S. Reiquam
Signature of Authorized Representative CINDY S. REIQUAM

Attest:
(Seal) Beth Keller

ATTORNEY-IN-FACT
Title

NOTE: This form is to be used as a companion document to the Affidavit on Behalf of Contractor (current edition).

Rev. 7/90

COUNTERSIGNED:
FLYNN INSURANCE AGENCY
GORDON D. MCMANUS

PERFORMANCE BOND

Bond 4673090

Conforms with The American Institute of Architects
AIA Document A312

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

CONTRACTOR (Name and Address):
E.H. OFTEDAL & SONS, INC.
P.O. BOX 400
MILES CITY, MONTANA 59301

SURETY:
HARTFORD ACCIDENT AND INDEMNITY COMPANY
HARTFORD PLAZA
HARTFORD, CONNECTICUT 06115

OWNER (Name and Address):
STATE OF MONTANA, DEPARTMENT OF STATE LANDS
1625 ELEVENTH AVENUE
HELENA, MONTANA 59620

CONSTRUCTION CONTRACT
Date: 9/01/93
Amount: TWO HUNDRED ELEVEN THOUSAND EIGHTY SEVEN AND NO/100---
($211,087.00---)
Description (Name and Location): SMITH PIT MINE RECLAMATION, DSL-AMRB 93-003
CARBON COUNTY, MONTANA

BOND
Date (Not earlier than Construction Contract Date): 9/01/93
Amount: TWO HUNDRED ELEVEN THOUSAND EIGHTY SEVEN AND NO/100---
($211,087.00---)
Modifications to this Bond: [X] None [ ] See Page 2

CONTRACTOR AS PRINCIPAL
Company: E.H. OFTEDAL & SONS, INC. (Corporate Seal)

Signature: W. T. Oftedal - President
Name and Title:
W. T. OFTEDAL PRESIDENT

SURETY
HARTFORD ACCIDENT AND INDEMNITY COMPANY (Seal)

Signature: Cindy S. Reiquam
Name and Title: CINDY S. REIQUAM
ATTORNEY-IN-FACT

(FOR INFORMATION ONLY-Name, Address and Telephone)
AGENT or BROKER: FLYNN INSURANCE AGENCY
BOX 711
GREAT FALLS, MONTANA 59403

OWNER'S REPRESENTATIVE (Architect, Engineer or other party):

1 The Contractor and the Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the Owner for the performance of the Construction Contract, which is incorporated herein by reference.

2 If the Contractor performs the Construction Contract, the Surety and the Contractor shall have no obligation under this Bond, except to participate in conferences as provided in Subparagraph 3.1.

3 If there is no Owner Default, the Surety's obligation under this Bond shall arise after:

3.1 The Owner has notified the Contractor and the Surety at its address described in Paragraph 10 below that the Owner is considering declaring a Contractor Default and has requested and attempted to arrange a conference with the Contractor and the Surety to be held not later than fifteen days after receipt of such notice to discuss methods of performing the Construction Contract. If the Owner, the Contractor and the Surety agree, the Contractor shall be allowed a reasonable time to perform the Construction Contract, but such an agreement shall not waive the Owner's right, if any, subsequently to declare a Contractor Default; and

3.2 The Owner has declared a Contractor Default and formally terminated the Contractor's right to complete the contract. Such Contractor Default shall not be declared earlier than twenty days after the Contractor and the Surety have received notice as provided in Subparagraph 3.1; and

3.3 The Owner has agreed to pay the Balance of the Contract Price to the Surety in accordance with the terms of the Construction Contract or to a contractor selected to perform the Contruction Contract in accordance with the terms of the contract with the Owner.

4 When the Owner has satisfied the conditions of Paragraph 3, the Surety shall promptly and at the Surety's expense take one of the following actions:

AUG-01-1994 13:49 FROM E.H.OFTEDAL & SONS INC. TO 16566398 P.02

4.1 Arrange for the Contractor, with consent of the Owner, to perform and complete the Construction Contract; or

4.2 Undertake to perform and complete the Construction contract itself, through its agents or through independent contractors; or

4.3 Obtain bids or negotiated proposals from qualified contractors acceptable to the Owner for a contract for performance and completion of the Construction Contract, arrange for a contract to be prepared for execution by the Owner and the contractor selected with the Owner's concurrence, to be secured with performance and payment bonds executed by a qualified surety equivalent to the bonds issued on the Construction Contract, and pay to the Owner the amount of damages as described in Paragraph 6 in excess of the Balance of the Contract Price incurred by the Owner resulting from the Contractor's default; or

4.4 Waive its right to perform and complete, arrange for completion, or obtain a new contractor and with reasonable promptness under the circumstances:

.1 After investigation, determine the amount for which it may be liable to the Owner and, as soon as practicable after the amount is determined, tender payment therefor to the Owner; or

.2 Deny liability in whole or in part and notify the Owner citing reasons therefor.

If the Surety does not proceed as provided in Paragraph with reasonable promptness, the Surety shall be deemed be in default on this Bond fifteen days after receipt of an ditional written notice from the Owner to the Surety emanding that the Surety perform its obligations under is Bond, and the Owner shall be entitled to enforce any medy available to the Owner. If the Surety proceeds as ovided in Subparagraph 4.4, and the Owner refuses the ayment tendered or the Surety has denied liability, in hole or in part, without further notice the Owner shall be titled to enforce any remedy available to the Owner.

After the Owner has terminated the Contractor's right complete the Construction Contract, and if the Surety ects to act under Subparagraph 4.1, 4.2, or 4.3 above, en the responsibilities of the Surety to the Owner shall ot be greater than those of the Contractor under the onstruction Contract, and the responsibilities of the Owner the Surety shall not be greater than those of the Owner nder the Construction Contract. To the limit of the amount this Bond, but subject to commitment by the Owner of e Balance of the Contract Price to mitigation of costs and mages on the Construction Contract, the Surety is bligated without duplication for:

6.1 The responsibilities of the Contractor for correction of defective work and completion of the Construction Contract;

6.2 Additional legal, design professional and delay costs resulting from the Contractor's Default, and resulting from the actions or failure to act of the Surety under Paragraph 4; and

6.3 Liquidated damages, or if no liquidated damages are specified in the Construction Contract, actual damages caused delayed performance or non-performance of the Contractor.

7 The Surety shall not be liable to the Owner or others for obligations of the Contractor that are unrelated to the Construction Contract, and the Balance of the Contract Price shall not be reduced or set off on account of any such unrelated obligations. No right of action shall accrue on this Bond to any person or entity other than the Owner or its heirs, executors, administrators or successors.

8 The Surety hereby waives notice of any change, including changes of time, to the Construction Contract or to related subcontracts, purchase orders and other obligations.

9 Any proceeding, legal or equitable, under this Bond may be instituted in any court of competent jurisdiction in the location in which the work or part of the work is located and shall be instituted within two years after Contractor Default or within two years after the Contractor ceased working or within two years after the Surety refuses or fails to perform its obligations under this Bond, whichever occurs first. If the provisions of this Paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

10 Notice to the Surety, the Owner or the Contractor shall be mailed or delivered to the address shown on the signature page.

11 When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the construction was to be performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. The intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

12 **DEFINITIONS**

12.1 Balance of the Contract Price: The total amount payable by the Owner to the Contractor under the Construction Contract after all proper adjustments have been made, including allowance to the Contractor of any amounts received or to be received by the Owner in settlement of insurance or other claims for damages to which the Contractor is entitled, reduced by all valid and proper payments made to or on behalf of the Contractor under the Construction Contract.

12.2 Construction Contract: The agreement between the Owner and the Contractor identified on the signature page, including all Contract Documents and changes thereto.

12.3 Contractor Default: Failure of the Contractor, which has neither been remedied nor waived, to perform or otherwise to comply with the terms of the Construction Contract.

12.4 Owner Default: Failure of the Owner, which has neither been remedied nor waived, to pay the Contractor as required by the Construction Contract or to perform and complete or comply with the other terms thereof.

ODIFICATIONS TO THIS BOND ARE AS FOLLOWS:

AUG-01-1994 13:50 FROM E.H.OFTEDAL & SONS INC. TO 16566398 P.03

CERTIFICATE OF SUBSTANTIAL COMPLETION

TO: Montana Department of State Lands - State of Montana OWNER

PROJECT TITLE: Smith Pit Mine

MONT A/E or DSL-AMRB: 93-003

CONTRACT DATE: August 16th 1993

LOCATION: Carbon County

PROJECT OR PART SHALL INCLUDE: All Bid Items

CONTRACTOR: E.H. Oftedal & Sons, Inc.

ADDRESS: P.O. Box 400
Miles City, MT 59301

TELEPHONE NO: 406-232-5911

SUBSTANTIAL COMPLETION DATE: June 9th 1994

DSL INSPECTION DATE:

ENGINEER: HKM Associates

PERFORMANCE BOND NO: 4673090

DATE OF BOND: 9/01/93

SURETY: HARTFORD ACCIDENT & INDEMNITY CO.

MONTANA AGENT: FLYNN INSURANCE COMPANY

ADDRESS: P. O. BOX 711
GREAT FALLS, MT. 59403

The Work performed under this Contract has been inspected by authorized representatives of the Owner, Contractor, and Engineer, and the Project (or specified part of the Project, as indicated above) is hereby declared to be substantially completed on the above date.

DEFINITION OF SUBSTANTIAL COMPLETION

The date of substantial completion of a project or specified area of a project is the date when the construction is sufficiently completed, in accordance with the contract documents, as modified by any change orders agreed to by the parties, so the Owner can occupy or utilize the project or specified area of the project for the use for which it was intended.

A tentative list of items to be completed is appended hereto. This list may not be exhaustive, and the failure to include an item on it does not alter the responsibility of the Contractor to complete all the Work in accordance with the Contract Documents.

ENGINEER: HKM Associates

By _____ 7-22-94
Authorized Representative Date

The Contractor accepts the above Certificate of Substantial Completion and agrees to complete and correct the items on the tentative list within the time indicated.

CONTRACTOR: E.H. Oftedal & Sons, Inc.

By _____ 7/8/94
Authorized Representative Date

The Owner accepts the Project or specified area of the Project as substantially complete and will assume full possession of the project or specified area at 12:01 AM (time), on June 10th 1994 (date). The responsibility for heat, utilities, security, and insurance under the Contract Documents shall be as set forth under "Remarks" below.

OWNER: Montana Department of State Lands

By _____ 7/27/94
Authorized Representative Date

Remarks: (Attach additional sheet, if necessary)

Rev. 7/90

ATTACHMENT V
VARIOUS CONSTRUCTION DOCUMENTS

April 19, 1994
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HKM Associates
Engineers / Planners

2727 Central Avenue
P.O. Box 31318
Billings, Montana 59107-1318
Phone (406) 656-6399
Fax (406) 656-6398

Branch Offices:
Bozeman, Montana/(406) 586-8834
Miles City, Montana/(406) 232-6666
Sheridan, Wyoming/(307) 672-9006

Mr. Joel Chavez
Abandoned Mine Reclamation Specialist
Abandoned Mine Reclamation Bureau
1625 Capital Station
Helena, MT 59620

RE: Progress Report
Smith Pit Mine Reclamation T.O. 003.08

Dear Joel:

As I have informed you, Oftedal has resumed construction of the project on March 31st, 1994. On March 22, myself, Fred Royce and Kim Wilson, superintendent for Oftedal had a site walk over to inspect the condition of the project following spring thaw. Overall there was only very minor erosional damage. Some on-site sedimentation had occurred but all material was successfully retained by erosion control bales. Some minor slope rilling has occurred at various locations. This rilling will be stabilized once seeding and mulching is completed.

All drainage channels performed as designed and remained stable with no headcutting. Based on the condition of the site, we feel it is not necessary to construct the erosion control contour ditches as originally designed. These ditches were originally intended as a safeguard against rilling. The lack of rilling after spring thaw indicates the relative stability of the slopes.

There is one area on the north eastern edge of the north pit area where some concentrated flows have caused minor erosion. We are requiring that the contractors place erosion control mat in this area.

At this time revegetation is nearly complete with the exception of some areas that will require broadcast seeding. The following tasks still need to be completed:

- Placing remainder of erosion control mat
- Fencing
- Adit closure
- Final site cleanup
- Demobilization

Attached is a copy of a letter to Oftedal detailing the remaining work.

Please call if you have any questions.

Sincerely,

HKM ASSOCIATES

Greg Underhill, P.E.

HKM Associates
Engineers / Planners

2727 Central Avenue
P.O. Box 31318
Billings, Montana 59107-1318
Phone (406) 656-6399
Fax (406) 656-6398

Branch Offices:
Bozeman, Montana/(406) 586-8834
Miles City, Montana/(406) 232-6666
Sheridan, Wyoming/(307) 672-9006

April 19, 1994
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Jeff McDonald
E. H. Oftedal and Sons, Inc.
P.O. Box 400
Miles City, MT 59301

Dear Jeff:

This letter is in regard to work remaining on the Smith Pit Reclamation project. On March 22nd, myself, Fred Royce, and Kim Wilson, Oftedal's representative, visited the site. Oftedal commenced construction on the Smith Pit Reclamation project after winter shutdown on March 31, 1994. There are some minor changes for erosion control mat placement. Based on this inspection I informed Kim of the remaining tasks to be completed. The following list details remaining work activities.

1. Regrade subgrade, straighten out and restaple the erosion control mat in channel number two.
2. Omit all erosion control contour ditches.
3. Place just one width of erosion control mat in channels one and two (currently completed last fall).
4. Omit erosion control mat on sides of triangular channels 3 and 4.
5. Staple edges of all erosion control mats currently in place.
6. Place erosion control mat in rilled area at location on northeast edge of north pit area. Extend mat over grade break down to undisturbed ground at toe of spoil slope.
7. Place erosion control bales in area discussed in item 6.
8. Place erosion control mat in transition areas of channels 3 and 4.
9. Replace erosion control bales damaged by cattle over winter.
10. Stake all erosion control bales.
11. Construct farm fence.
12. Broadcast seed all steep areas as discussed with Kim.
13. Adit closure.
14. Final site cleanup.

This list presents the major items at this time. Other tasks may be necessary prior to final approval.

Erosion control mat not used in the channels will be used to stabilize the rilled area. Payment for this work will be by unit price bid for erosion control matt.

Please call if you have any questions.

Sincerely,

HKM ASSOCIATES

Greg Underhill, P.E.

cc: Dan Nebel
Gary Simonich
Joel Chavez

HKM Associates
Engineers / Planners

2727 Central Avenue
P.O. Box 31318
Billings, Montana 59107-1318
Phone (406) 656-6399
Fax (406) 656-6398

Branch Offices:
Bozeman, Montana/(406) 586-8834
Miles City, Montana/(406) 232-6666
Sheridan, Wyoming/(307) 672-9006

December 14, 1993
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Mr. Joel Chavez
Abandoned Mine Reclamation Bureau
Department of State Lands
1625 Eleventh Avenue
Helena, MT 59620

RE: Progress Reports
Smith Pit Mine Reclamation T.O. 3.08

Dear Joel:

This letter will update the current status of the Smith Pit Mine Reclamation Project.

Oftedal shut down their operations for the winter on December 1, 1993. As we agreed, this will be recorded as the stop date in the contract time until weather permits startup in the spring.

On December 1st, Fred Royce and I met with you on-site to inspect the work completed to date and examine temporary erosion control features for the winter. Either rock channel protection, erosion control matts or erosion control bales have been placed in the various channels. Straw bales have also been placed at other areas at the site that may be subject to erosion. Additional work will be required in some of the channels in order to be in compliance with the specifications. However, adequate temporary erosion control devices have been installed for the winter.

The contractor has essentially completed 99 percent of the earthwork with a few areas requiring minor grading remaining.

Work to be completed in the spring will consist of the following:

1. Revegetation
2. Fencing
3. Minor grading of select areas
4. Adit backfill
5. Channel completion
6. Site cleanup

As of this date, we have completed the final survey of the site. We will use this data to compute payment quantities for pay request number 2. We anticipate one more pay request which will cover the remainder of the work after it is completed in the spring.

Although the project is shut down for the winter, time will be required on HKM's part to compute payment quantities and process pay request number 2.

Please call if you have any questions.

Sincerely,

HKM ASSOCIATES

Greg Underhill, P.E.
Project Engineer

GU/dh

DEPARTMENT OF STATE LANDS

P.O. BOX 201601

MARC RACICOT, GOVERNOR

STATE OF MONTANA

1625 ELEVENTH AVENUE
HELENA, MONTANA 59620-1601

(406) 444-2074

December 3, 1993

G. Underhill

Jeff McDonald
E.H. Oftedahl and Sons Inc.
P.O. Box 400
Miles City, MT 59301

Dear Jeff:

Please consider this letter as an official notice for a weather related (i.e. Winter) shut down of the Smith Pit Mine reclamation project (DSL-AMRB 93-003) in Carbon County, Montana. Tabulation of the 90 calendar day construction period has been terminated as of 12/1/93 and will resume when site conditions permit.

Sincerely,

Joel Chavez
Abandoned Mine Reclamation Bureau

ra

Greg FYI

Joel

September 27, 1993
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HKM Associates
Engineers/Planners

2727 Central Avenue
P.O. Box 31318
Billings, Montana 59107-1318
Phone (406) 656-6399
Fax (406) 656-6398

Branch Offices:
Bozeman, Montana/(406) 586-8834
Miles City, Montana/(406) 232-6666
Sheridan, Wyoming/(307) 672-9006

Mr. Joel Chavez
Abandoned Mine Reclamation Bureau
Department of State Lands
Capitol Station
1625 Eleventh Avenue
Helena, MT 59620

RE: Progress Report
Smith Pit Mine Reclamation Red Lodge, MT, T.O. 003.08

Dear Joel:

As you are aware, Oftedal started at the site on September 27, 1993. Work is progressing at a good pace. Oftedal is currently using two D9 Cat dozers to push the spoil into the pit area. Scrapers should be on site this week at which time they will begin stripping topsoil. Joe Long informed me they plan to "windrow" the topsoil on the upslope side of the pit. HKM's inspector, Fred Royce, has been on site since Monday, September 20, 1993. In summary, the following events have taken place:

DATE	EVENT
9/20/93	Greg Underhill on site all day familiarizing Fred Royce with project and clarifying any questions the contractor has. DSL and OSM personnel on site at 3:00 P.M.
9/23/93	Ross Waples, HKM's soil scientist was on site to identify topsoil stripping areas. A dozer was used to "trench" into topsoil stripping areas to assess suitability. Ample "topsoil" is available, however, stripping depths will vary with location. The contractor has been made aware of this and HKM's inspector will assist the contractor in identifying suitable topsoil stripping areas and depths.
9/24/93	Contractor shut down for weekend. Contractor will work 4 ten hours days. Estimated earthwork completed to date is 30,000 cubic yards.

Jeff McDonald would like to submit Oftedal's first pay request at the end of this month (September 30). They would then submit requests on a monthly basis. We informed Jeff that DSL would have to okay his request.

Please advise us on this issue and contact us if you have any other questions.

Sincerely,

HKM ASSOCIATES

Greg Underhill, P.E.

GU/cc

HKM Associates
Engineers / Planners

2727 Central Avenue
P.O. Box 31318
Billings, Montana 59107-1318
Phone (406) 656-6399
Fax (406) 656-6398

Branch Offices:
Bozeman, Montana/(406) 586-8834
Miles City, Montana/(406) 232-6666
Sheridan, Wyoming/(307) 672-9006

January 3, 1994
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Mr. Joel Chavez
Abandoned Mine Reclamation Bureau
Department of State Lands
1625 Eleventh Avenue
Helena, MT 59620

RE: Pay Request Number 3 and Progress Report
Smith Pit Mine Reclamation T.O. 003.08

Dear Joel:

Enclosed are four copies of Pay Request Number 3 from Oftedal. We have reviewed the request and recommend payment as shown.

Site earthwork is essentially complete with the exception of installation of one erosion control contour ditch and some minor grading, which will be completed in the spring.

The final earthwork quantity is 219,988 cubic yards. This amount is approximately 10% greater than HKM's original estimate of 200,200 CY. The additional quantity was from slightly greater excavation in the western limits of the north and south pit areas.

The entire project is approximately 84% complete at this time. The remaining work will consist of the following tasks:

Minor grading
Placing remainder of erosion control mat
Revegetation
Fencing
Adit closure
Final site cleanup
Demobilization

Please call if you have any questions.

Sincerely,

HKM ASSOCIATES

Greg Underhill

Greg Underhill, P.E.

GU/dh

Enclosures

FOR AGENCY USE

APPLICATION NUMBER								
DATE RECEIVED								
YEAR			MONTH			DAY		

MONTANA POLLUTANT DISCHARGE ELIMINATION SYSTEM APPLICATION FOR A GENERAL PERMIT TO DISCHARGE STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY

Return to: Water Quality Bureau - A206 Cogswell Building
Montana Department of Health and Environmental Sciences
Helena, MT 59620

Please print or type:

1. Name and Address of Contractor:
E.H. Oftedal and Sons Inc
P.O. Box 400
Miles City Mt 59301

2. Construction Site Address and Name of Owner/Operator (If project is owned by MDOT, please indicate the project number and designation) :
6 Miles East of Red Lodge, Carbon County Mt.
Owner: Montana Dept. of State Lands

3. Contact Person: Jeff McDonald
Telephone Number: (406) 232-5911

4. Describe the nature of the construction activity:
Reclamation of Smith Pit

5. Indicate the total area (acres) of the site and the area that will undergo excavation or soil disturbance during the lifespan of the project: 28 acres

6. Site Location (Township, Range, Section, 1/4 Section): T8S R21E Section 6
Please attach a site map and a drainage or topographic map of the construction location.

7. Describe the planned best management practices (BMPs) to be used during construction to control sediment and erosion in storm runoff: (A detailed Erosion Control Plan is required prior to construction.) See enclosure

7. Continued

8. Describe the planned BMPs to control pollutants in storm water after construction is completed: See enclosure

9. Name of receiving water: Bear Creek
If treated storm water will be discharged to a municipally owned storm sewer, a letter of authorization from the municipality must accompany this application. (Letter attached.) No: X
Yes: ___

NOTE: Prior to construction, a detailed erosion control plan complete with maps and drawings shall be submitted to the Water Quality Bureau. No land clearing or construction activities shall occur until the erosion control plan has been approved and implemented. This plan shall be submitted at least thirty (30) days prior to the start of construction.

I CERTIFY UNDER PENALTY OF THE LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

E.H. Oftedal and Sons, Inc.
Name of contractor

Project Manager
Title

Jeff McDaniel
Signature

8/16/93
Date

DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES
CONSTRUCTION STORM WATER EROSION CONTROL PLAN

A. Site Description

1. Project Name: Smith Pit Mine Reclamation Project, DSL-AMRB 93-003
Project owner: Montana Department of State Lands. 1625 11 Ave. Helena, MT 59620

2. Project Address: 6 miles east of the Town of Red Lodge in Carbon County, Montana.

Township 8S, Range 21E, Section 6 (strip pit reclamation)
Township 7S, Range 21E, Section 32 (adit closure)

3. Contractor Name and address: (to be awarded)
E. H. Oftedal and Sons, Inc.
P.O. Box 400
Miles City MT 59301

4. Project Description, start date and completion date (purpose of project and types of soil disturbing activities):

Bid to be opened: 2:00 P.M. July 6, 1993. Contract time 90 calendar days.

Work will consist of reclamation of approximately 28 acres of an abandoned dragline strip pit and blast closure of one small adit. The work includes mobilization and demobilization, earthwork excavation and fill placement, coal slack burial, drainage channel construction, topsoil salvage and respreading, revegetation, lime spreading, placement of straw bales for erosion control and construction of approximately 5420 lineal feet of farm fence.

5. Name of the nearest surface water body and distance to (stream, river, wetland, lake, intermittent stream, ephemeral drainages, etc):

Project discharges to Bear Creek by over land flow. Bear Creek is approximately 600 feet distant at its closest point.

B. Controls

1. Temporary Stabilization Practices:

_____	temporary seeding	__x__	mulching
__x__	silt fences		
__x__	erosion control blankets	__x__	straw bale dikes
__x__	temporary drain diversion	_____	temporary sediment basins
_____	brush barriers		

(Temporary Stabilization Practices... Continued)
Other practices:

Dust control by watering haul roads, access roads, and other areas that may produce dust.

2. Permanent Stabilization Practices:

Runoff quanities for channel disign have been determined by using the SCS method with the following design parameters:

10 YEAR/24 HOUR EVENT
HYDROLOGIC SOIL GROUP C
CURVE NUMBER 87

__x__ permanent seeding	_____ sod stabilization
_____ check dams	_____ vegetative buffer strips
__x__ grassed waterways	__x__ erosion control blankets
__x__ drainage swales	_____ earth dikes
_____ pipe slope drain	_____ level spreader
_____ subsurface drain	_____ sediment traps
_____ drain inlet protection	_____ sediment basin/pond
__x__ rock outlet protection	__x__ terraced slopes
_____ retaining walls	

Other practices:

3. Storm Water Management Controls:

_____ wet pond(s) or man-made wetland(s)
_____ infiltration trench(es) or basin(s)
_____ dry pond(s)
__x__ flow attenuation by use of vegetative waterways and natural depressions

Other practices:

4. Narrative Sequence of Major Activities and Time Frames for Each:
(contractor attach construction schedule)

Earthwork Mid-September → Mid October

Seeding Mid October → November 1

5. Waste Disposal (List disposal methods for construction waste materials, hazardous waste, and sanitary wastes):

Any construction waste from materials packaging, or other contractor generated waste will be disposed of in a licensed disposal facility.

Any sanitary wastes will be contained in portable toilets and removed by a septic tank/sanitary waste disposal firm licensed to pump and dispose of sanitary waste.

Any hazardous waste generated on site will be disposed of according to Department of Health and Environmental Sciences hazardous waste regulations.

6. Off site Vehicle Tracking:

If conditions on site become such that there is potential to track sediment off site, then all vehicles shall be washed down before being allowed to leave the project area. Vehicle washing will take place so as to contain all washed sediment on site (i.e. above straw bales on project site or within a silt fence enclosed area constructed to contain wash water sediment).

C. <u>Maintenance/Inspection Procedures</u>

List the maintenance and inspection procedures to be conducted at the site and the person who will conduct the inspections.

(Contractor completed item: Include BMPs, equipment and systems to be inspected, inspection schedule, records to be kept and person responsible for inspection)

BMP's per this plan,
Weekly inspections.
Person responsible for inspection - Jeff McDonald
Records kept for 3 years
All equipment and systems inspected daily

D. <u>Good Housekeeping: Spill Prevention and Materials Storage Practices</u>

1. Materials Inventory - check those materials which will be present at the site during construction:

_____Concrete	_____Detergents	__x__Fertilizers
_____Pesticides	_____Paints	__x__Fuel
_____Solvents	_____Metal Studs	_____Lumber
_____Masonry Blocks		_____Tar
__x__Petroleum Based Products		_____Roofing Shingles

List any other materials to be used or stored on-site:

Straw for mulch, seed, lime, wire and fencing materials.

2. **The following product specific storage practices will be followed on-site:**

Petroleum products: If petroleum products are stored on site then they will be stored in only one location. Bermed area lined with plastic, capacity of bermed area 110% capacity of largest petroleum product vessel or container will be constructed. Tanks will be stored off the ground. All lids will be securely fastened. Spill containment absorbent products will be available for use on site.

Fertilizers: If fertilizers are stored on site, then they will be stored off the ground on pallets and covered with plastic sheeting so as to prevent contact with any rain water that could wash fertilizers onto surrounding soil or off-site.

3. **In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices will be followed for spill prevention and clean-up:**

Any storage of fertilizers will be as above. Any spills of fertilizer will be picked up and spread at the specified rate over areas where permanent seeding and fertilizing are specified in the project plans.

Any storage of fuels and petroleum products will be as above. Any spills of petroleum based products will be contained with absorbent materials and disposed of in a manner approved of by the Montana Department of Health and Environmental Sciences. Any soil contaminated with petroleum wastes will be disposed of under a plan approved of by the Montana Department of Health and Environmental Sciences.

4. **Describe any top soil borrow operations that will be in use related to the project.**

Topsoil will need to be salvaged and placed in temporary stockpiles if sufficient regraded area is not available for direct placement of topsoil. Stockpiled soil will be confined with

straw bale dikes or silt fence placed on the down gradient side of stockpiles. Stockpile locations will be determined at the onset of construction and will all be within the construction boundaries as shown on the project plans.

5. **Attach a map of the site and indicate the location of erosion control practices to be used, storage location of various materials, stockpiles, cut and fill slopes, and state waters.**

(Project plans and specifications attached with location of BMP's highlighted)

PROJECT OWNER'S STATEMENT:

The Department of State Lands, Abandoned Mine Reclamation Bureau certifies that the Smith Pit Reclamation Project has been designed by HKM Associates, qualified licensed professional engineers, who have designed this reclamation project so that storm water discharges are managed during project construction by the best stormwater management practices that have been incorporated into the project design. Temporary erosion control practices during construction, best management practices for good housekeeping and materials handling, and permanent stabilization of the site have all been accounted for as part of the project design. Storm water discharge best management practices have been incorporated into the bid items for **Mobilization, Revegetation, Unclassified Excavation, Erosion Control Mat, Rip Rap,** and **Straw Bale Dikes** and will be paid for by the Department of State Lands, Abandoned Mine Reclamation Bureau under these bid items.

John Koech Reclamation Program Supervisor 6/10/93

Department of State Lands Date

CONTRACTOR CERTIFICATION

I certify under penalty of law that I understand the terms and conditions of the general Montana Pollutant Discharge Elimination System (MPDES) permit that authorizes the storm water discharges associated with construction activity from the construction site identified as part of this certification. Further, by my signature, I understand that I am becoming a permittee, along with other contractors and subcontractors signing such certifications, to the general MPDES permit for the storm water discharges associated with construction activity from the identified site. As a permittee, I understand that I, and my company, are legally required under the Clean Water Act, to ensure compliance with the terms and conditions of the storm water erosion control plan developed under the MPDES permit and the terms of the MPDES permit.

Jeff McDonald E. H. Oftedal and Sons Inc. 8/16/93

Contractor Date

Prime Contractor

Responsible For

Contractor Date

Responsible For

TO Mr. Greg Underhill
HKM Associates

E. H. OFTEDAL & SONS, INC.
P.O. Box 400
Miles City, Montana 59301
Phone (406) 232-5911 • Fax (406) 232-7419

SUBJECT Amoco 4551 for Smith Pit Job

DATE 11/5/93

MESSAGE We would like to propose Amoco 4551 instead of Amoco 4553 for the Smith Pit fabric. We have used this product on Highway projects with large rip rap.

Thank You

SIGNED Jeff McDonald

DATE 11/8/93

REPLY 4551 Amoco Fabric may be used as a substitute for Amoco 4553.

SIGNED Greg Underhill

TOPS FORM 3801 PRINTED IN USA

RECIPIENT: REPLY ON PINK COPY — RETAIN WHITE COPY
SENDER ... RETAIN THIS COPY

Amoco Fabrics Company
Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

March 19, 1993

Roscoe Steel & Culvert Company
5405 Momont Road
Missoula, MS 59802

Re: Purchase Order # CB3949

We wish to certify that Amoco CEF Style 4551, shipped to you under Shipping # OF299, dated March 19, 1993, meets the following minimum roll averages:

Property	Test Method	Minimum Roll Average Value	Typical Value
Grab Tensile, lbs.	ASTM-D-4632	150	175
Grab Elongation, %	ASTM-D-4632	50	71
Mullen Burst, psi	ASTM D-3786	350	382
Puncture, lbs.	ASTM-D-4833 (Modi)	90	117
Trapezoid Tear, lbs.	ASTM-D-4533	65	76
U.V. Resistance, %* (Strength Retained)	ASTM-D-4355	70	85
A.O.S. % Retained	ASTM-D-4751	70	100
Cal/min/sq. ft.	ASTM-D-4491	90	179

*Percent of minimum grab tensile after conditioning.

Amoco Fabrics and Fibers Company manufactures all the nonwoven geotextile fabric certified above. The values above are a result of testing conducted in on-site laboratories at the time of production. The typical values provided are for comparison purposes, and are representative of current production of this product. All test methods used are ASTM or industry standards. Test data is retained in the Quality Control files at Amoco's production facility.

Ben Boutwell

Bennie J. Boutwell
Process & Area Control Superintendent

mom

Notary Public, Jeff Davis County, Georgia
My Commission Expires May 21, 1994

NOTICE TO PROCEED

TO: E. H. Oftedal & Sons, Inc.
P. O. Box 400
Miles City, MT 59301

DATE: September 7, 1993
PROJECT: Smith Pit Mine Reclamation
DSL-AMRB: 93-003

In accordance with the Agreement dated September 1, 1993, you are hereby notified to commence Work no later than Sept. 20th, 1993, and you are to complete the Work within 90 consecutive calendar days thereafter. The date of completion of all Work is, therefore, Dec. 18, 1993

OWNER: DEPARTMENT OF STATE LANDS

By: Vic R Anderson
Title: AMRB - Chief

ACCEPTANCE OF NOTICE TO PROCEED

Receipt of the above Notice to Proceed is hereby acknowledged this 13 day of September, 1993.

CONTRACTOR: E H oftedal and Sons Inc,

By: Jeffrey R Nash
Title: Estimator

Rev. 3/91

HKM ASSOCIATES

DSL-AMRB CONTRACT NO. 003

TASK ORDER NO. 8

SMITH PIT MINE RECLAMATION PROJECT

CONSTRUCTION ADMINISTRATION AND SUPERVISION

This Task Order is made pursuant to DSL-AMRB Contract No. 003 and constitutes an Agreement between the Montana Department of State Lands, Abandoned Mine Reclamation Bureau (AMRB) and HKM Associates (HKM) to provide professional engineering services to AMRB in the performance of construction administration, surveying, soil testing, field inspection, and project documentation.

PROJECT BACKGROUND

The Smith Mine Pit and Virtue Gulch Adit reclamation project was assigned to HKM Associates in December 1992 under DSL-AMRB Contract No. 003 Task Order 5. Task Order 5 required Site Survey, Design and Construction Plan and Specification Development. Final Plans and Specifications were completed on June 3, 1993.

The Smith Mine Strip Pit, SE¼ Section 6, T.8S., R.21E., resulted when the faltering Montana Coal and Iron Company attempted contour mining on the #1 seam above the #2 and #3 seams which were mined by conventional underground mining methods. The Smith Strip Pit was conceived as an attempt to increase coal production without the expense associated with developing underground mining facilities. The Smith Strip Pit was conceived in 1945, developed in 1946 and abandoned in 1947 when complaints by customers about impurities in the coal forced closure. No reclamation of the site has taken place and a vertical highwall 32 feet high and 5500 feet long was left on the site. The site has no associated structures or debris.

Virtue Gulch Section 32 adit is an open mine portal that is presumed to have been left by the International Coal Company operations in SW¼ Section 32, T.8S., R.21E. Lack of consent to reclaim from previous landowner has caused this mine opening to have been left out of previous

AMRB reclamation projects. Slack dumps in the flood plain of Virtue Gulch were reclaimed by previous AMRB actions. The portal is partially open under sandstone cap rock. Residual slack dumps are minuscule or non-existent.

TASK DESCRIPTION

The purpose of this Task Order is to employ HKM's services for construction administration, surveying, inspection, soil sampling and documentation. All work will be performed according to the procedures set forth in the AMRB Procedures Manual (dated July, 1990 with updates and amendments). This task order is comprised of specific subtasks:

SUBTASK NO. 1 - CONSTRUCTION ADMINISTRATION

Construction administration work tasks will include attending public meetings, pre-bid and preconstruction meetings, providing an agenda and documenting meeting notes for the pre-construction meeting, scheduling personnel, reviewing and approving submittals and construction pay requests, preparing work directives and change orders, providing liaison between the construction contractor and the AMRB, and preparing weekly project summaries and monthly project status reports. Preparing monthly invoices according to procedures set forth in the contract agreement is also part of this subtask.

SUBTASK NO. 2 - SURVEYING

HKM will perform surveying associated with setting primary control points, determining topsoil pile quantities, and performing a final site survey to determine earthwork quantities upon completion of construction. Survey total station data will be used to form a CADD terrain model which will be used to determine earthwork quantities.

SUBTASK NO. 3 - FIELD INSPECTION

HKM will provide full time field inspection during the construction phase of the project. Personnel provided will be familiar with AMRB procedures and the construction bid package. HKM will provide both photographic and written documentation of construction activities. Field inspection personnel will also measure quantities as specified in the construction bid document. This information will provide the basis for approval of pay requests and any necessary change orders required for the project. Field personnel will track construction schedules and will maintain appropriate contact with the construction contractor for scheduling field inspection work tasks. A final close-out field inspection is also included in the work for this subtask.

HKM will obtain approval from AMRB for all field inspection personnel used on the project. HKM will schedule personnel with the objective of maintaining consistency throughout the project. This objective will be met by minimizing the number of personnel assigned to field inspection duties. Any personnel adjustments will be made only with the approval of the AMRB project manager.

SUBTASK 4 - SOIL SAMPLING AND TESTING

A sampling and testing program will be conducted to assess lime requirements prior to topsoil placement. Surface samples will be taken (a minimum of one sample per acre) and tested for acid potential in order to determine lime requirements prior to placing topsoil. The sampling will be conducted by a HKM soil scientist. The samples will be tested for pH and lime requirement at Energy Laboratories in Billings, MT. We anticipate approximately 28 samples will be required.

SUBTASK NO. 5 - FINAL REPORT PREPARATION

A final report will be prepared after a Certificate of Acceptance is signed by the AMRB. The final report will follow the outline presented in the AMRB Procedures Manual and will include labeled photographs, a narrative summary of the project, and a cost breakdown.

COMPENSATION

Compensation will be paid in accordance with DSL-AMRB Contract No. 003. An AMRB form, Cost or Price Summary, detailing the cost of this work, is attached. The fixed fee was negotiated between AMRB and HKM. The cost of this Task Order is $46,588.02 plus a fixed fee of $3,642.64, making a total cost of $50,230.66. Compensation will be paid to HKM according to invoices submitted monthly to the AMRB for costs actually accrued and the prorated fixed fee.

DELIVERABLES

Deliverables for this Task Order will include weekly updates to the AMRB project manager in the form of a memorandum, monthly project status reports, construction administration documents specified by the AMRB procedures manual, three (3) copies of the Smith Pit Mine Reclamation Project Final Report, and a Final Task Order Closeout Report.

SCHEDULE

HKM will commence the work required by this Task Order upon its approval by AMRB. Subtask No. 1, Construction Administration, will commence on the effective date of the Task order and will continue through the completion of the project.

Subtask No. 2 Surveying, consisting of staking primary control will commence before notice to proceed to the contractor is given.

Subtask No. 3, Field Inspection, will commence with the preconstruction conference. The conference will be scheduled after all submittals and insurance certificates are received and approved. Subtask No. 3 will be in effect for the length of the contract period which is currently set at 90 calendar days. Any amendments to the contract period resulting from weather days, winter shut-down, change orders, or change in scope of this Task Order may require a modification of this schedule.

Subtask 4, soil sampling and testing, will commence at the onset of construction and when the contractor has completed final grading of the subgrade prior to placing topsoil.

Subtask No. 5, Final Report Preparation, will be completed within 90 days of the date of final payment to the construction contractor.

AUTHORIZATION

Execution of this Task Order constitutes authorization to proceed with all subtasks described under Task Description.

COMPLETION AND ACCEPTANCE

Receipt of all deliverables specified in this Task Order and AMRB approval of such deliverables constitute acceptance and completion of this Task Order. All or portions of work under this Task Order assumed by a responsible party and approved by AMRB will no longer be the responsibility of HKM.

IN WITNESS THEREOF, the parties hereto each herewith execute this Task order on the dates set forth below.

STATE OF MONTANA
DEPARTMENT OF STATE LANDS
ABANDONED MINE RECLAMATION BUREAU

BY: _____ DATE: 7/2/93

HKM ASSOCIATES

BY: _____ DATE: 6/28/93

HKM ASSOCIATES
P.O. Box 31318
Billings, MT 59107

PRECONSTRUCTION CONFERENCE AGENDA

Project: Smith Pit Mine Reclamation

Date: September 13, 1993 Time: 3:00 pm

Location: Corp Air Terminal - Billings

AMRB Representatives: Joel Chavez

Attendees: *(Sign in on sheet)*

Discussion

- **Project Organization:**

  DSL Abandoned Mine Reclamation Bureau:

  Engineer: Fred C. Royce - HKM
  Greg Underhill - HKM

  Contractor: Jeff McDonald
  Joe Long

  Subcontractors:

  Other representatives: Joel Chavez
  DSL - AMRB

- **Purpose of Meeting**

  - Introduce and designate responsible personnel - Joe Long - superintendent on site
  - ✓ Establish working relationship
  - ✓ Discuss project requirements

- **Contractor's Tentative Schedule**

  - Contract Time — Start Date Sept 20, 1993
    Completion Date Dec 18, 1993
  - Normal Work Week
    will work 4 10 hr days/wk to start may change in future

- **Contractor's Submittals**
  - ✓ Construction schedules schedule submitted
  - ✓ Traffic Plan n/A.
  - ✓ Lime, seed, fertilizer, and mulch certifications (if applicable) Contractor will supply prior to delivery to site
  - ✓ Other Technical Specification sections - Riprap source
  - ✓ Substitutions will use on site riprap as long as it contains to meet spec
- **Applications for Payment** one per month: Payment for Filter Fabric will be for product installed Topsoil Rehandling discussion.
  - ✓ Review of General Conditions
  - ✓ Review of Measurement and Payment
  - ✓ Materials on site (not applicable)
- **Specific DSL Requirements and Procedures**
  - ✓ Interim inspections
  - – Safety meetings
  - ✓ Certified payrolls will supply payrolls on weekly basis
- **Critical Work Sequencing**
  - ✓ Material ordering and delivery
  - ✓ Liming, topsoiling, and seeding (if applicable) understands that they will perform soil tests prior to allowing topsoil placement
- **Field Decisions, Work Directives, and Change Orders**
  - ✓ Review of General Conditions
- **Use of Premises, Storage Areas, Security, Field Office**
- **Contractor's Assignments for Safety and First Aid**
  - ✓ Review Safety Standards, Special Provisions
- ✓ **Progress Meetings**
- ✓ **Inspection and Testing**
  - – Review General Conditions
- **Comments by Other Representatives**
  - – DSL Abandoned Mine Reclamation Bureau Joel Commented on requiring compliance to
  - – Others
- **Distribution of Additional Sets of Specifications and Plans to Contractor** he would like two full size copies and 2 additional specification + plan set books

(Note: A copy of Preconstruction Meeting summary to be mailed to all participants.)

MEMORANDUM

TO: Joel Chavez, Jeff McDonald, Fred Royce, Joe Long, and File

FROM: Greg Underhill GU

DATE: 09/16/93
F:\WP\08\M186141\CMC03437.MEM

SUBJECT: Preconstruction Meeting Smith Pit Mine Reclamation Project

Gentlemen:

Following are the pre-construction meeting minutes. Please contact me if you have any questions or require clarification of any item.

Preconstruction Conference Minutes

Project: Smith Pit Reclamation

Date: September 13, 1993

Location: Corporate Air Billings, MT

Attendees:

Joel Chavez	DSL
Greg Underhill	HKM
Fred Royce	HKM
Jeff McDonald	Oftedal
Joe Long	Oftedal

The pre-construction meeting commenced at 3:00 P.M. The following submittals were presented to HKM and DSL personnel:

Storm Water Discharge Permit
Schedule of Values
List of Subcontractors
List of Equipment
Dust Abatement Plan
Construction Schedule
Riprap Test Results

The following items were discussed:

1. Oftedal's on site superintendent will be Joe Long.

2. Oftedal is proposing to use on-site material for riprap. According to Jeff the test results are from material taken from the site. The test results indicate that the material meets specifications. Oftedal may use the on-site riprap as long as it continues to meet both gradation and wear specifications. If during excavation, the riprap characteristics are found to be different or deviate from the specifications, Oftedal will be required the obtain riprap from another approved source. Testing of the new material will be required.

3. Pay requests may be submitted at monthly intervals. There will be no intermediate surveys for earthwork quantities for partial pay requests. Intermediate quantities will be determined from totals of daily yardage quantities which will be agreed upon by the Engineer and Oftedal's superintendent at the end of each days work. No payments will be made for material stored on site (filter fabric, erosion control mat, etc.). Payment for such materials will be made when the material is in place.

4. In accordance with the Storm Water Runoff Permit, prior to commencement of any excavation, all runoff control devices (hay bales, silt fence) shall be in place as shown on the plans. The Contractor may utilize either hay bales or silt fence at his discretion. As specified, additional devices may be necessary at some locations. The Contractor shall place devices as directed by the Engineer or MDHES personal.

5. Jeff Mcdonald stated that they intend to place topsoil directly from borrow areas to final graded areas. Jeff is aware that testing of subgrade soil is required prior to placement of topsoil and that testing may take up to ten days. HKM and Oftedal will work together to schedule testing and topsoil placement accordingly. However, holdups may occur due to testing turnaround time and Oftedal may be required to stockpile topsoil. If stockpiling is necessary Oftedal will be paid the contract price for Topsoil Rehandling of one cent ($0.01) per cubic yard.

6. The first progress meeting has been scheduled for October 4th 1993. Future meetings will be scheduled at that time.

7. Notice To Proceed has been given for September 13, 1993. Oftedal plans to Mobilize this week and begin construction Monday, September 20th.

SMITH PIT MINE RECLAMATION PROJECT - E. H. OFTEDAL & SONS, INC.

SCHEDULE OF VALUES - UNIT BID PRICES WILL BE USED.

LIST OF SUBCONTRACTORS - TOWNSEND AGRICULTURAL SERVICES INC.
COWLEY, WY - SEEDING.

(Tom Conroy) CONROY'S INC. HARDIN, MT. - FENCING. 665-2216
certified for mt & wyoming highway work

RED LODGE SURVEYING - STAKING.

CERTIFIED PAYROLLS - COMPUTER GENERATED WEEKLY.

LIST OF EQUIPMENT -

2 - D9L DOZERS
3 - 631D SCRAPERS
1 - 14G MOTOR GRADER
1 - 980 LOADER
1 - TRACKHOE
1 - REED SCREEN ALL
1 - WATER TRUCK
MSC. SUPPORT EQUIPMENT

DUST ABATEMENT PLAN - DUST WILL BE CONTROLLED BY WATER TRUCKS.
DUST GENERATION WILL BE MINIMIZED BY THE
SHORT WORK AREAS INHERENT IN THIS PROJECT.

Jeff McJadd - Oftedal

E.H. Offeld & Sons Inc.

Smith Pit AML - Equipment List

D9L - U Dozer

D9L - U Dozer

631D - Scraper

631D - Scraper

631D - Scraper

14G - Blade

215 - Trackhoe

980C - Loader

msc support Equip

Water Truck

Schedule - 4 Day / 10 Hrs / Day

	Mobilization	Sept 1, 1993
	Dozer work	Sept 7, 1993
	Scraper work	Sept 27, 1993
Direct Haul	Topsoil	Oct 4, 1993
	Seeding	Oct 18, 1993
	Rip Rap	Oct 4, 1993

Proposed Subcontractors

Townsend Agricultural Services Inc. Cowley, Wy

PREBID CONFERENCE AGENDA

Project: Smith Pit - Misc

Date: June 23, 1993 Time: 1:00 pm

Location: on site

Conducted by: Greg Underhill (HKM) Joel Clancy (DSL)

AMRB Representatives: As above

Attendees: *(Sign in on sheet)*

Discussion

- **Scope and Goals** Specs have technical
  - Scope of work < Topsoil Mesic sites
  - Estimated quantities
  - Soil sampling testing Program
  - Stormwater runoff Permit

- **Instruction to Bidders Review**
  - * — Bid Security 10% of total bid
  - — Addenda - no oral interpretation
  - — Method of Award (3% Montana Contractor's Preference) must have valid mt. contractors licen
  - — Bid Items and Estimated Quantities Prevailing mt. wage rates
  - — Separate Bid Schedules or Alternatives (if applicable)

- **Contract Time** 90 days

- **Contract Requirements**
  - — Insurance Requirements - & ITB -5
  - — Contractor's Supervision
  - — Permits and Fees Required
  - — Utilities
  - — Safety Requirements
  - — Field Office and Sanitary Facilities
  - — EEO, DBE, Montana Products Preference, and Buy American Requirements
  - — Special Provisions

- **Engineer's Cost Estimate** 500,000 - 600,000

- **Questions and Discussion**

June 24, 1993
F:\WP\08\M186141\CMC03239.LTR

HKM Associates
Engineers/Planners

2727 Central Avenue
P.O. Box 31318
Billings, Montana 59107-1318
Phone (406) 656-6399
Fax (406) 656-6398

Branch Offices:
Bozeman, Montana/(406) 586-8834
Miles City, Montana/(406) 232-6666
Sheridan, Wyoming/(307) 672-9006

Mr. Joel Chavez
Abandoned Mine Reclamation Specialist
Abandoned Mine Reclamation Bureau
1625 Capital Station
Helena, MT 59620

RE: Prebid Showing Smith Pit Mine Reclamation
Task Order 8 Consultant Contract No. DSL AMRB-003

Dear Joel:

On June 23 the prebid showing for this project was conducted. The showing was attended by Joel Chavez, Greg Underhill and eight contractors. A copy of the sign-in sheet is attached.

The general scope of the project was described to the contractors. Emphasis was placed on obtaining and implementing the stormwater erosion control permit and plan. Emphasis was also brought out about the soil sampling program to be conducted for lime requirement prior to topsoil placement.

Estimated quantities were discussed and the fact that final quantities may vary from those given in the bid schedule.

Off site riprap sources were discussed.

Clarification was provided to some contractors in regard to the relationship between unclassified excavation and topsoil rehandling quantities. The contractors in question were informed that the topsoil rehandling quantities are included in the unclassified excavation quantity figure. In essence the contractor moves this soil twice and gets paid twice. He gets paid to strip the topsoil and place it in the stockpile (unclassified excavation). He then gets paid to move it from the stockpile and spread it over the subgrade (topsoil rehandling).

No questions out of the ordinary were posed and in general most contractors seemed to grasp the main points of the job.

No addendums are necessary at this time.

Regarding the turnaround time for testing the soil samples for lime requirement, I talked to John Standish of Energy Labs. He informed me that he will "rush" a job for a 50 percent increase in the testing cost or in this case 38 dollars versus 25 dollars per test. He said he does not need a contract to do this as long as he is given as much advance notice as possible. He did say however, if the state wants a contract he will accommodate. A rush order turnaround could be 3 to 5 days providing he is given advanced notice.

Please call regarding our direction on this topic and any other questions you may have.

Sincerely,

HKM ASSOCIATES

Greg Underhill

Greg Underhill, P.E.

GU/cc

NAMES OF PERSONS ATTENDING

- [x] PREBID CONFERENCE
- [ ] PRECONSTRUCTION CONFERENCE
- [ ] MONTHLY MEETING

FOR Smith Pit mine PROJECT

Carbon COUNTY, MT - MONT A/E or DSL-AMRB 93-003

DATE: June 23, 1993 TIME: 1:00 pm

Name	Address	Affiliation	Telephone Number
Alfred Hakanson	Bolt & Harris	G M Wells Inc	656 3372
Dan Wonderlich	1806 N. Main	Sharbono Const	442-8122
Kelly Tjaden	765 Colleen	Olympus Env. Inc	443-7307
John Binder	" "		
GARY McCAE	115 Arbuthnot Terrace	A.M. WELLS INC	685-3372
LARRY BOWSER	Hilger	Montgomery	538-9811
KEN Brandt	Hilger	Montgomery	C.
Dave Fitzmaurice	Great Falls	Strumaster T&E	727-3537
Dan Jones	Billings	Jones Const	373 6601
Mark Weeden	411 W Lake	WEEDEN CONST	538-3726
Greg Underhill	2727 central	HKM Associates	656-6349

ATTACHMENT VI
INSPECTION REPORTS

HKM ASSOCIATES
ENGINEERS — PLANNERS

WEEKLY INSPECTION REPORT

PROJECT SMITH PIT MINE
DATE Sept. 23, 1993
WEEK of Sept 20 to Sept. 23
PROJECT No. 8M186.139
EPA CONTRACT No.

REPORT TO: HKM Project Manager

PROJECT DESCRIPTION: BACKFILL OF STRIP PIT, INCLUDING TOPSOIL, AND BLAST CLOSURE OF A MINE ADIT.

OWNER:

CONTRACT ADMINISTRATOR: HKM Associates

PRIME CONTRACTOR: E.H. OFTEDAL & SONS

GENERAL WEATHER CONDITIONS: No Precipitation

PROBLEMS & DELAYS: None

CONTRACTOR PROJECT MANAGEMENT:

MILESTONE ACHIEVEMENTS & PROGRESS: 30,000 C.Y. OF EXCAVATION have been completed.

SPECIAL ATTENTION AREAS: It will be important to identify Loam areas and assure that adequate Loam is saved to cover the work area.

GENERAL DESCRIPTION OF HKM PROJECT ACTIVITIES: The CONTRACTOR had 2 D-9 Dozers pushing UNCLASSIFIED EXCAVATION INTO The pit. There were No SCRAPERS ON SITE MOST OF The EXCAVATION WAS ON The NORTH Side OF The PROJECT.

SUBMITTED BY: Fred C Royce
PROJECT INSPECTOR

REVIEWED BY:
PROJECT MANAGER

HKM ASSOCIATES
ENGINEERS — PLANNERS

WEEKLY INSPECTION REPORT

PROJECT Smith Pit Mine
DATE
WEEK of Sept 27 to Sept 30, 1993
PROJECT No. 8M186.139
EPA CONTRACT No.

REPORT TO: HKM Project Manager

PROJECT DESCRIPTION: Backfill of strip pit, including topsoil, and blast closure of a mine adit.

OWNER:

CONTRACT ADMINISTRATOR: HKM Associates

PRIME CONTRACTOR: E.H. Oftedal & Sons

GENERAL WEATHER CONDITIONS: No Precipitation

PROBLEMS & DELAYS: None

CONTRACTOR PROJECT MANAGEMENT: Joe McDonald will be out of work for several weeks. Another Superintendent will be assigned

MILESTONE ACHIEVEMENTS & PROGRESS: Surveyors completed staking catch points.

SPECIAL ATTENTION AREAS:

GENERAL DESCRIPTION OF HKM PROJECT ACTIVITIES:
Observed work
Documented work
Took Project Photos

SUBMITTED BY: Fred C. Royce
PROJECT INSPECTOR

REVIEWED BY:
PROJECT MANAGER

HKM ASSOCIATES
ENGINEERS — PLANNERS

WEEKLY CONSTRUCTION REPORT

DATE Oct. 7, 1993

PROJECT Smith Pit Mine PROJECT No. 8M186.139

WEEK of Oct. 4 to Oct 7, 1993 EPA CONTRACT No.

REPORT TO : **HKM Project Manager**

PROJECT DESCRIPTION :

OWNER :

CONTRACT ADMINISTRATOR : **HKM Associates**

PRIME CONTRACTOR: OFTEDAL & SONS

GENERAL WEATHER CONDITIONS:

CONTRACTOR PROJECT MANAGEMENT: Superintendent is Absent (injured) Jeff McDonald makes Periodic Site Visits

PROBLEMS & DELAYS: None

MILESTONE ACHEIVEMENTS & PROGRESS: Excavation between 94+00 LT and 109+00 LT. Complete One Void of 2000 C.Y. ± Remains to be Filled

SPECIAL ATTENTION AREAS:

There will not be Enough Topsoil. To place 8" over The project. Most of The inplace material is Similar To The material That is Supporting Growth Adjacent To The work Area. When Seeded, This will probably provide An Adequete Growth. This was Discussed with Joel ~~Sanchez~~ Chevez on Mon Oct. 4

GENERAL DESCRIPTION OF HKM PROJECT ACTIVITIES:

Took Project Photos
Document Job Progress

SUBMITTED BY: Fred C. Royce
PROJECT INSPECTOR

REVIEWED BY:
PROJECT MANAGER

HKM ASSOCIATES
ENGINEERS — PLANNERS

WEEKLY INSPECTION REPORT

DATE OCT 15 1993

PROJECT SMITH PIT MINE PROJECT No. 8M186.139

WEEK of OCT 11 to OCT. 15, 1993 EPA CONTRACT No.

REPORT TO: HKM Project Manager

PROJECT DESCRIPTION: BACKFILL OF STRIP PIT, INCLUDING TOPSOIL, AND BLAST CLOSURE OF A MINE ADIT.

OWNER:

CONTRACT ADMINISTRATOR: HKM Associates

PRIME CONTRACTOR: E.H. OFTEDAL & SONS

GENERAL WEATHER CONDITIONS: Good

CONTRACTOR PROJECT MANAGEMENT: JEFF McDONALD PERIODICALLY VISITS SITE

PROBLEMS & DELAYS: NONE

MILESTONE ACHIEVEMENTS & PROGRESS: WITH THE EXCEPTION OF ONE VOID, COMPLETED EXCAV. NORTH WEST OF POINT 59

SPECIAL ATTENTION AREAS:

APPROXIMATELY 148,000 C.Y. OF EXCAVATION HAS BEEN COMPLETED.

GENERAL DESCRIPTION OF HKM PROJECT ACTIVITIES:

MONITORED EXCAVATION TO INSURE ALL COAL SLACK ADEQUETLY COVERED, MONITORED PRODUCTION, TOOK PROJECT PHOTOS

SUBMITTED BY: Fred C. Royce
PROJECT INSPECTOR

REVIEWED BY:
PROJECT MANAGER

HKM ASSOCIATES
ENGINEERS — PLANNERS

WEEKLY INSPECTION REPORT

PROJECT SMITH PIT MINE
DATE OCT. 22, 1993
PROJECT No. 8M186.139
WEEK of OCT 18 to OCT 22, 1993
EPA CONTRACT No.

REPORT TO: HKM Project Manager

PROJECT DESCRIPTION: BACKFILL OF STRIP PIT, INCLUDING TOPSOIL, AND BLAST CLOSURE OF A MINE ADIT.

OWNER:

CONTRACT ADMINISTRATOR: HKM Associates
PRIME CONTRACTOR: E.H. OFTEDAL & SONS
GENERAL WEATHER CONDITIONS: NO PRECIPITATION
CONTRACTOR PROJECT MANAGEMENT: JEFF MCDONALD MONITORS THE PROJECT, THERE IS NO ONSITE SUPER.

PROBLEMS & DELAYS: NONE

MILESTONE ACHIEVEMENTS & PROGRESS:
PERFORMED 33,500 C.Y. OF EXCAVATION.

SPECIAL ATTENTION AREAS:

GENERAL DESCRIPTION OF HKM PROJECT ACTIVITIES:
OBSERVED TOPSOIL REMOVAL
RECORDED QUANTITIES
DOCUMENTED WORK PROGRESS

SUBMITTED BY: Fred C. Rapp
PROJECT INSPECTOR

REVIEWED BY:
PROJECT MANAGER

HKM ASSOCIATES
ENGINEERS — PLANNERS

WEEKLY CONSTRUCTION REPORT

DATE Oct. 29, 1993

PROJECT Smith Pit Mine

PROJECT No. 8m186.139

WEEK of Mon, Oct 25 to Fri. Oct 29, 1993

EPA CONTRACT No.

REPORT TO : **HKM Project Manager**

PROJECT DESCRIPTION : Backfill of Strip Pit

OWNER :

CONTRACT ADMINISTRATOR : **HKM Associates**

PRIME CONTRACTOR: Oftedal & Sons

GENERAL WEATHER CONDITIONS: Snow Thurs.

CONTRACTOR PROJECT MANAGEMENT: Jeff McDonald Provides management from time to time. There is no superintendent.

PROBLEMS & DELAYS: None

MILESTONE ACHEIVEMENTS & PROGRESS:

SPECIAL ATTENTION AREAS: A site meeting is scheduled for Monday to consider adjusting grades in the old gravel pit area and to discuss loaming

GENERAL DESCRIPTION OF HKM PROJECT ACTIVITIES:

Documented job progress
Took site photos
Discussed fill & cut quantities in the old gravel pit area with Jeff M.

SUBMITTED BY: Fred C Popp
PROJECT INSPECTOR

REVIEWED BY:
PROJECT MANAGER

HKM ASSOCIATES
ENGINEERS — PLANNERS

WEEKLY INSPECTION REPORT

DATE Thurs 10-4-93

PROJECT SMITH PIT MINE PROJECT No. 8M186.141

WEEK of Nov. 1 to Nov. 4, 1993 EPA CONTRACT No.

REPORT TO: HKM Project Manager

PROJECT DESCRIPTION: BACKFILL OF STRIP PIT, INCLUDING TOPSOIL, AND BLAST CLOSURE OF A MINE ADIT.

OWNER:

CONTRACT ADMINISTRATOR: HKM Associates

PRIME CONTRACTOR: E.H. OFTEDAL & SONS

GENERAL WEATHER CONDITIONS: SNOW ON MON, TUES, THURS

CONTRACTOR PROJECT MANAGEMENT: KIM WILSON began MONDAY AS WORKING SUPERINTENDANT.

PROBLEMS & DELAYS:
SNOW THURS. HINDERED PRODUCTION

MILESTONE ACHIEVEMENTS & PROGRESS:

SPECIAL ATTENTION AREAS:
The AVAILABLE TOPSOIL WILL be UTILIZED IN AREAS WHEEE MOST NEEDED As Shown by SOILS TESTS AND VISUAL OBSERVATION OF EXISTING SUBGRADE

GENERAL DESCRIPTION OF HKM PROJECT ACTIVITIES:
1. MONITORED CONSTRUCTION ACTIVITIES
2. TOOK PROJECT PHOTOS
3. MEASURED LOAM

SUBMITTED BY: Fred C Royce
PROJECT INSPECTOR

REVIEWED BY:
PROJECT MANAGER

HKM ASSOCIATES
ENGINEERS — PLANNERS

WEEKLY INSPECTION REPORT

PROJECT Smith Pit Mine
DATE
PROJECT No. 8M186.
WEEK of Nov. 8 to Nov 11, 1993
EPA CONTRACT No.

REPORT TO: HKM Project Manager

PROJECT DESCRIPTION: Backfill of strip pit, including topsoil, and blast closure of a mine adit.

OWNER:

CONTRACT ADMINISTRATOR: HKM Associates

PRIME CONTRACTOR: E.H. Oftedal & Sons

GENERAL WEATHER CONDITIONS: No Precipitation

CONTRACTOR PROJECT MANAGEMENT: Kim Wilson is supervising the project

PROBLEMS & DELAYS: None

MILESTONE ACHIEVEMENTS & PROGRESS: Placed about 3000 C.Y. excavation in gravel pit area
Began installing rip-rap

SPECIAL ATTENTION AREAS:

GENERAL DESCRIPTION OF HKM PROJECT ACTIVITIES:
Monitored construction activity
Took soil samples and delivered to Billings
Brought survey data to Billings on Wednesday

SUBMITTED BY: Fred C. Royce
PROJECT INSPECTOR

REVIEWED BY:
PROJECT MANAGER

HKM ASSOCIATES
ENGINEERS — PLANNERS

WEEKLY INSPECTION REPORT

DATE 11-22-93

PROJECT SMITH PIT MINE PROJECT No. 8M186

WEEK of 11-13-93 to 11-20-93 EPA CONTRACT No.

REPORT TO: HKM Project Manager

PROJECT DESCRIPTION: BACKFILL OF STRIP PIT, INCLUDING TOPSOIL, AND BLAST CLOSURE OF A MINE ADIT.

OWNER:

CONTRACT ADMINISTRATOR: HKM Associates

PRIME CONTRACTOR: E.H. OFTEDAL & SONS

GENERAL WEATHER CONDITIONS: STORM THURSDAY

CONTRACTOR PROJECT MANAGEMENT: KIM WILSON IS SUPERINTENDENT

PROBLEMS & DELAYS: FROST IN GROUND IS MAKING GRADING DIFFICULT

ALLOWED CONTRACTOR TO WORK SATURDAY ON SHORT NOTICE IN AN ATTEMPT TO COMPLETE PROJECT BEFORE STORM PREDICTED ON 10-21-93

MILESTONE ACHIEVEMENTS & PROGRESS: LIME HAS BEEN SPREAD EXCAVATION COMPLETED.

SPECIAL ATTENTION AREAS:

DUE TO FROST, FENCE MIGHT NOT BE ABLE TO BE INSTALLED THIS YEAR

GENERAL DESCRIPTION OF HKM PROJECT ACTIVITIES:

OBSERVED WORK IN PROGRESS
MEASURED TOPSOIL

SUBMITTED BY: Fred C. Ronce
PROJECT INSPECTOR

REVIEWED BY:
PROJECT MANAGER

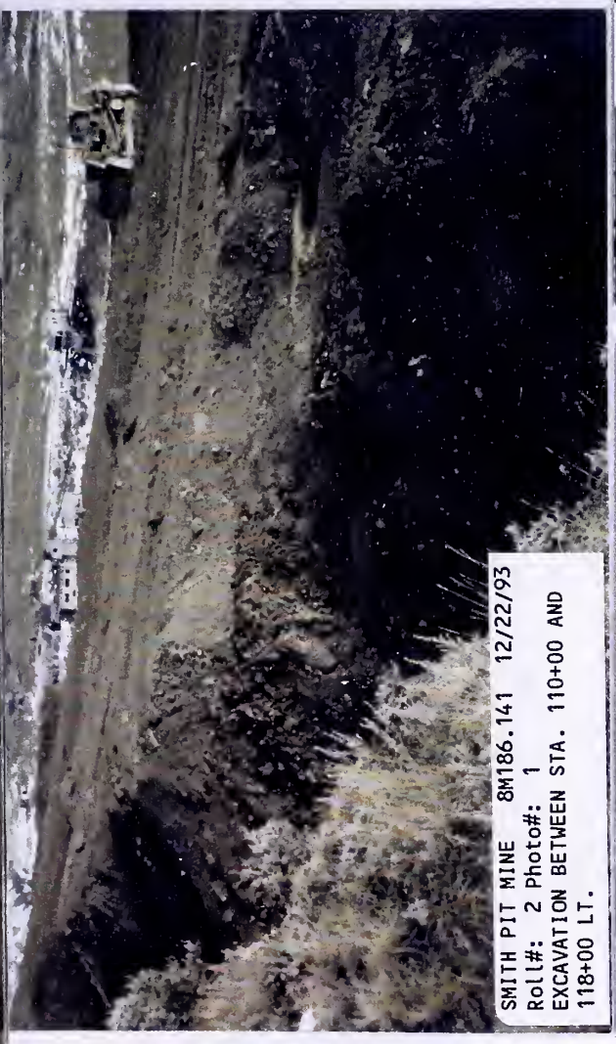
ATTACHMENT VII

PHOTOGRAPHS

SMITH PIT MINE 8M186.141 12/22/93
Roll#: 2 Photo#: 2
EXCAVATION BETWEEN STA. 110+00 AND 118+00 LT.

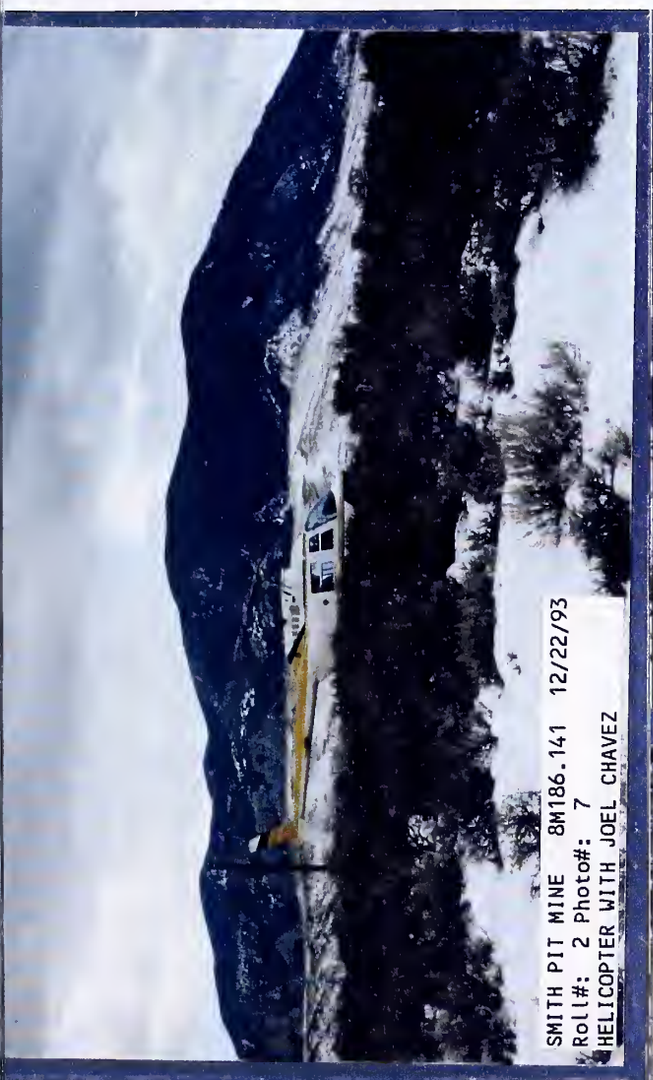
SMITH PIT MINE 8M186.141 12/22/93
Roll#: 2 Photo#: 3
EXCAVATION BETWEEN STA. 110+00 AND 118+00 LT.

SMITH PIT MINE 8M186.141 12/22/93
Roll#: 2 Photo#: 4
EXCAVATION BETWEEN STA. 110+00 AND 118+00 LT.



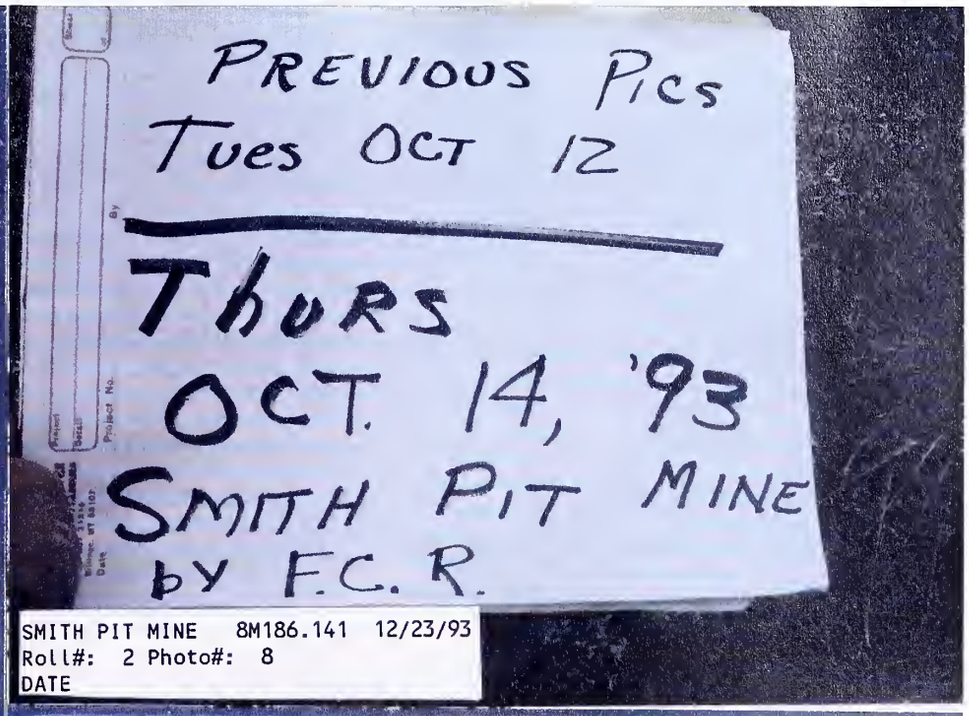
SMITH PIT MINE 8M186.141 12/22/93
Roll#: 2 Photo#: 1
EXCAVATION BETWEEN STA. 110+00 AND 118+00 LT.

SMITH PIT MINE 8M186.141 12/22/93
Roll#: 2 Photo#: 5
EXCAVATION BETWEEN STA. 110+00 AND 118+00 LT.



SMITH PIT MINE 8M186.141 12/22/93
Roll#: 2 Photo#: 7
HELICOPTER WITH JOEL CHAVEZ

SMITH PIT MINE 8M186.141 12/22/93
Roll#: 2 Photo#: 6
HELICOPTER WITH JOEL CHAVEZ



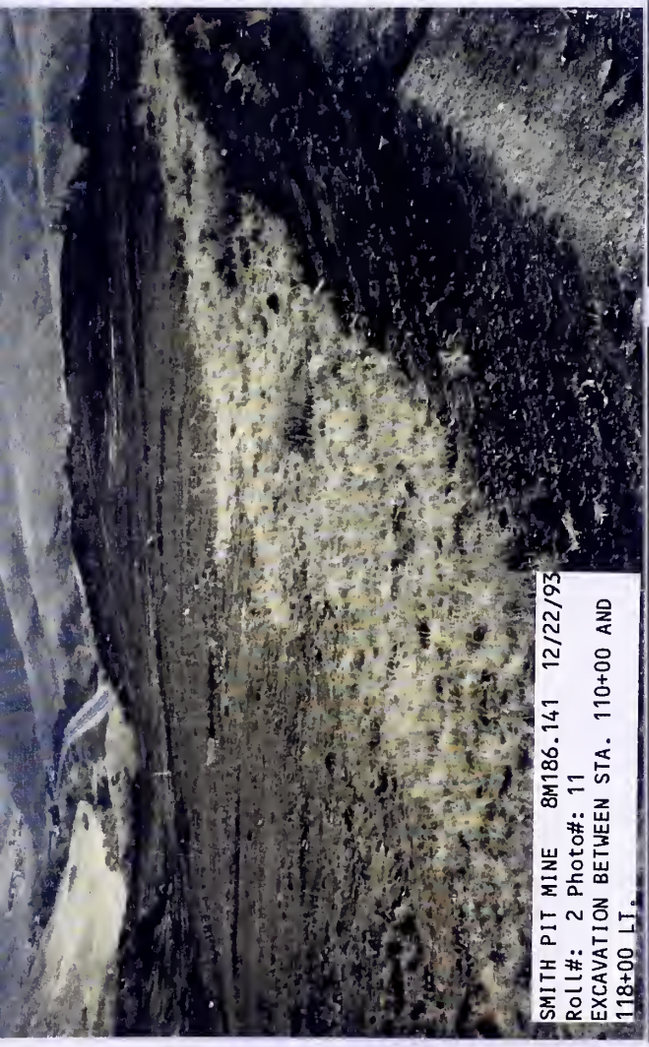
SMITH PIT MINE 8M186.141 12/23/93
Roll#: 2 Photo#: 8
DATE

SMITH PIT MINE 8M186.141 12/22/93
Roll#: 2 Photo#: 9
EXCAVATION BETWEEN STA. 110+00 AND
118+00 LT.

SMITH PIT MINE 8M186.141 12/22/93
Roll#: 2 Photo#: 10
EXCAVATION BETWEEN STA. 110+00 AND

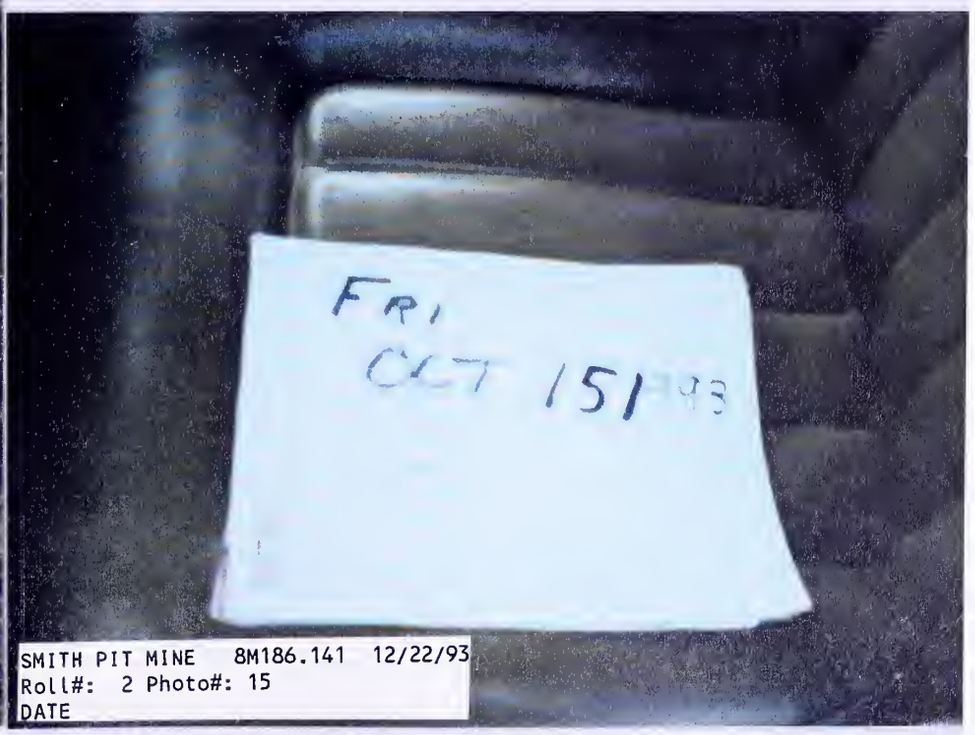
SMITH PIT MINE 8M186.141 12/22/93
Roll#: 2 Photo#: 12
EXCAVATION BETWEEN STA. 110+00 AND 118+00 LT.

SMITH PIT MINE 8M186.141 12/22/93
Roll#: 2 Photo#: 13
EXCAVATION BETWEEN STA. 110+00 AND 118+00 LT.



SMITH PIT MINE 8M186.141 12/22/93
Roll#: 2 Photo#: 11
EXCAVATION BETWEEN STA. 110+00 AND 118+00 LT.

SMITH PIT MINE 8M186.141 12/22/93
Roll#: 2 Photo#: 14
EXCAVATION BETWEEN STA. 110+00 AND 118+00 LT.



SMITH PIT MINE 8M186.141 12/22/93
Roll#: 2 Photo#: 15
DATE

H PIT MINE 8M186.141 12/22/93
#: 2 Photo#: 16
AT POINT 123.1

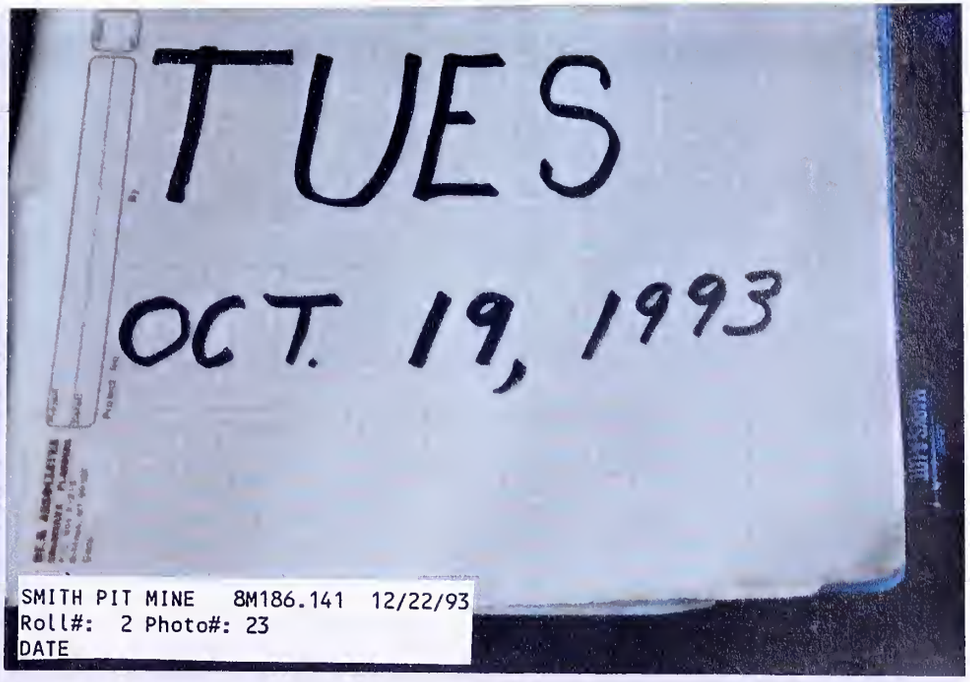
SMITH PIT MINE 8M186.141 12/22/93
Roll#: 2 Photo#: 18
EXCAVATION OF COAL SLACK AT STA. 117+00
LT.

SMITH PIT MINE 8M186.141 12/22/93
Roll#: 2 Photo#: 19
EXCAVATION OF COAL SLACK AT STA. 117+00
LT.

I PIT MINE 8M186.141 12/22/93
#: 2 Photo#: 20
L OF COAL SLACK

SMITH PIT MINE 8M186.141 12/22/93
Roll#: 2 Photo#: 17
LOOK WEST AT EXCAVATION FROM BETWEEN
POINTS 123 AND 124

H PIT MINE 8M186.141 12/23/93
#: 2 Photo#: 21
AL OF COAL SLACK



SMITH PIT MINE 8M186.141 12/22/93
Roll#: 2 Photo#: 23
DATE

SMITH PIT MINE 8M186.141 12/22/93
Roll#: 2 Photo#: 24
EXCAVATION NEAR CHANNEL 3

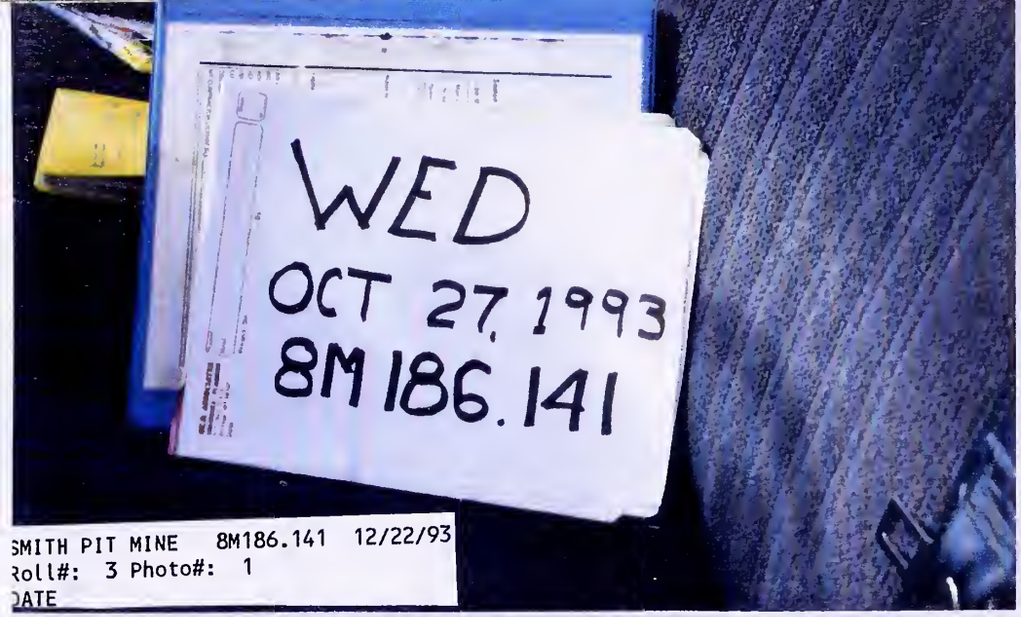
SMITH PIT MINE 8M186.141 12/22/93
Roll#: 2 Photo#: 22
EXCAVATION OF COAL SLACK

AERIAL PHOTOS TAKEN
DURING CONSTRUCTION

AERIAL PHOTOS TAKEN
DURING CONSTRUCTION

Roll # 3

By	Photo No.	Date	Description
ROYCE	1	10/27/93	DATE
ROYCE	2	10/27/93	LOOKING EAST AT EXCAVATION NEAR CHANNEL 3
ROYCE	3	10/27/93	LOOKING EAST AT EXCAVATION NEAR CHANNEL 3
ROYCE	4	10/27/93	HIGH WALL NEAR CHANNEL 3
ROYCE	5	10/27/93	HIGH WALL NEAR CHANNEL 3
ROYCE	6	10/27/93	LOOKING NORTHEAST AT PROJECT
ROYCE	7	10/27/93	STRAW STOCKPILE
ROYCE	8	10/27/93	STRAW STOCKPILE
ROYCE	9	10/27/93	LOOKING NORTHEAST FROM NEAR CHANNEL 3
ROYCE	10	10/27/93	LOOKING WEST AT OLD GRAVEL PIT AREA
ROYCE	11	10/27/93	TOPSOIL PILE, NEAR STA. 118+00
ROYCE	12	10/29/93	DATE
ROYCE	13	10/29/93	STOCKPILING OF TOPSOIL BETWEEN STA. 95+00 AND 105+
ROYCE	14	10/29/93	LOOKING NORTH AT SITE
ROYCE	15	10/29/93	LOOKING NORTH AT SITE
ROYCE	16	10/29/93	PLACEMENT OF FILL IN OLD GRAVEL PIT AREA
ROYCE	17	10/29/93	EXCAVATION NEAR CHANNEL 2



SMITH PIT MINE 8M186.141 12/22/93
Roll#: 3 Photo#: 1
DATE

SMITH PIT MINE 8M186.141 12/22/93
Roll#: 3 Photo#: 2
LOOKING EAST AT EXCAVATION NEAR CHANNEL 3

SMITH PIT MINE 8M186.141 12/22/93
Roll#: 3 Photo#: 5

SMITH PIT MINE 8M186.141 12/22/93
Roll#: 3 Photo#: 4
HIGH WALL NEAR CHANNEL 3

SMITH PIT MINE 8M186.141 12/22/93
Roll#: 3 Photo#: 3
LOOKING EAST AT EXCAVATION NEAR CHANNEL 3

SMITH PIT MINE 8M186.141 12/22/93
Roll#: 3 Photo#: 7
STRAW STOCKPILE

SMITH PIT MINE 8M186.141 12/22/93
Roll#: 3 Photo#: 8
STRAW STOCKPILE

SMITH PIT MINE 8M186.141 12/22/93
Roll#: 3 Photo#: 9
LOOKING NORTHEAST FROM NEAR CHANNEL 3

SMITH PIT MINE 8M186.141 12/22/93
Roll#: 3 Photo#: 6
LOOKING NORTHEAST AT PROJECT

SMITH PIT MINE 8M186.141 12/22/93
Roll#: 3 Photo#: 10
LOOKING WEST AT OLD GRAVEL PIT AREA

FRI
10-29-93
SMITH PIT MINE 8M186.141 12/22/93
Roll#: 3 Photo#: 12
DATE

SMITH PIT MINE 8M186.141 12/22/93
Roll#: 3 Photo#: 13
STOCKPILING OF TOPSOIL BETWEEN STA.
95+00 AND 105+

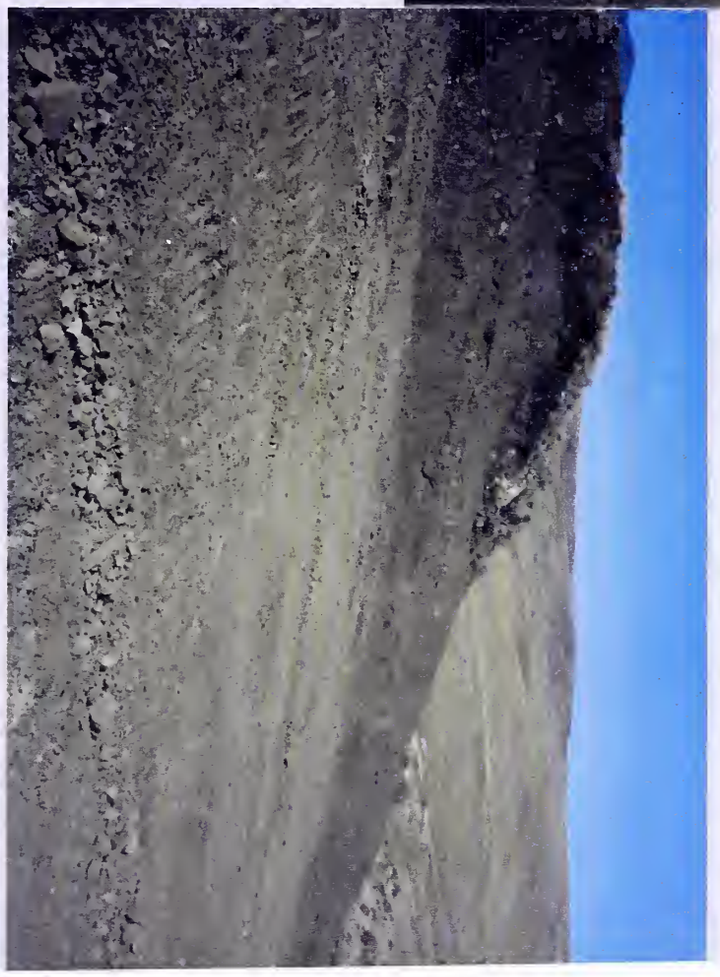
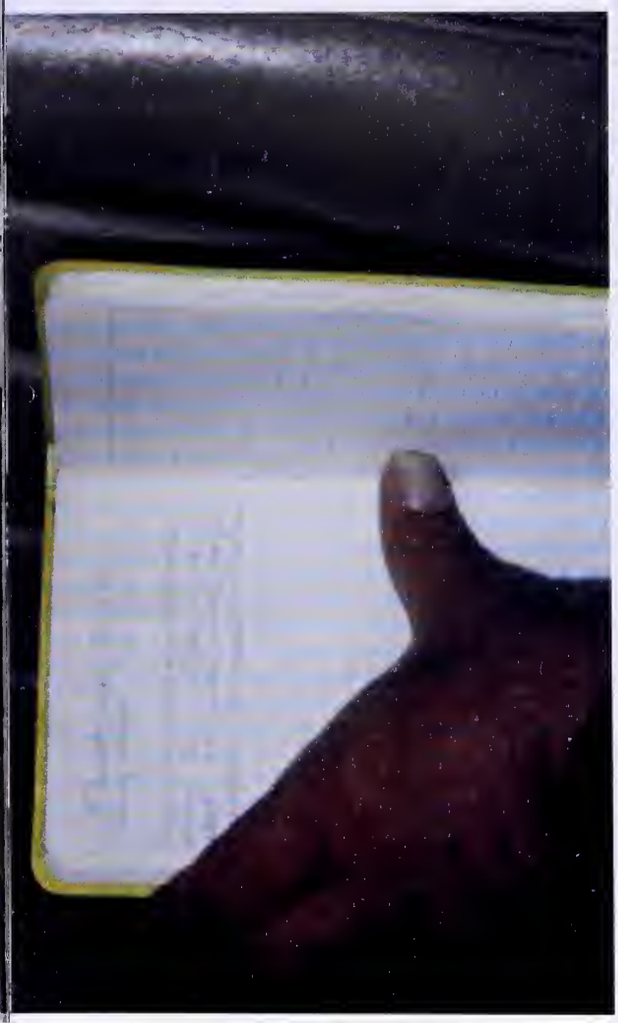
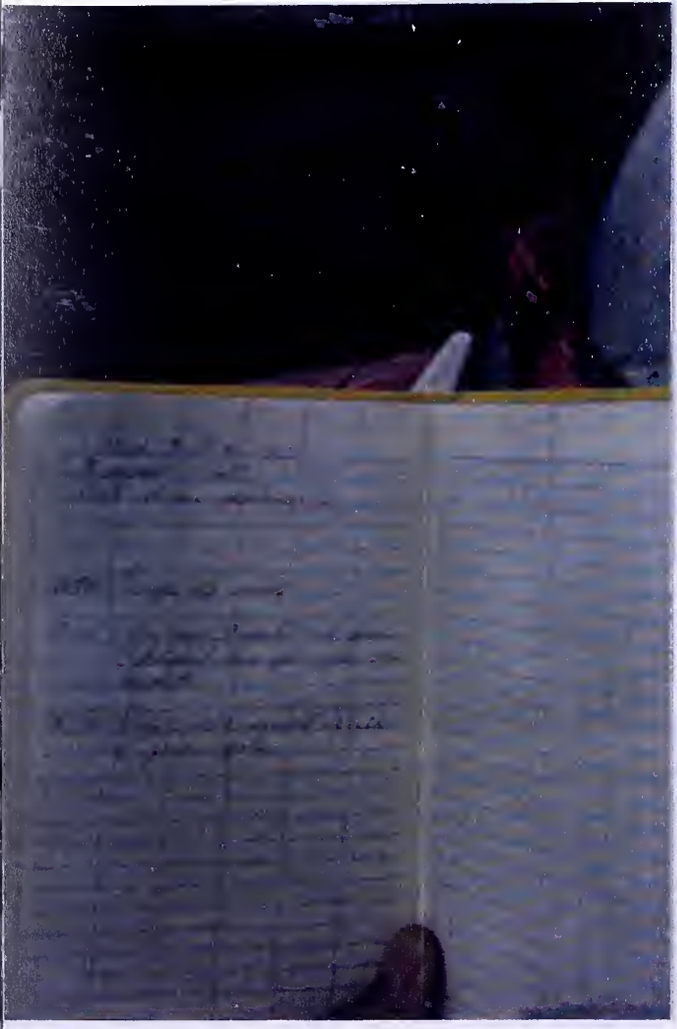
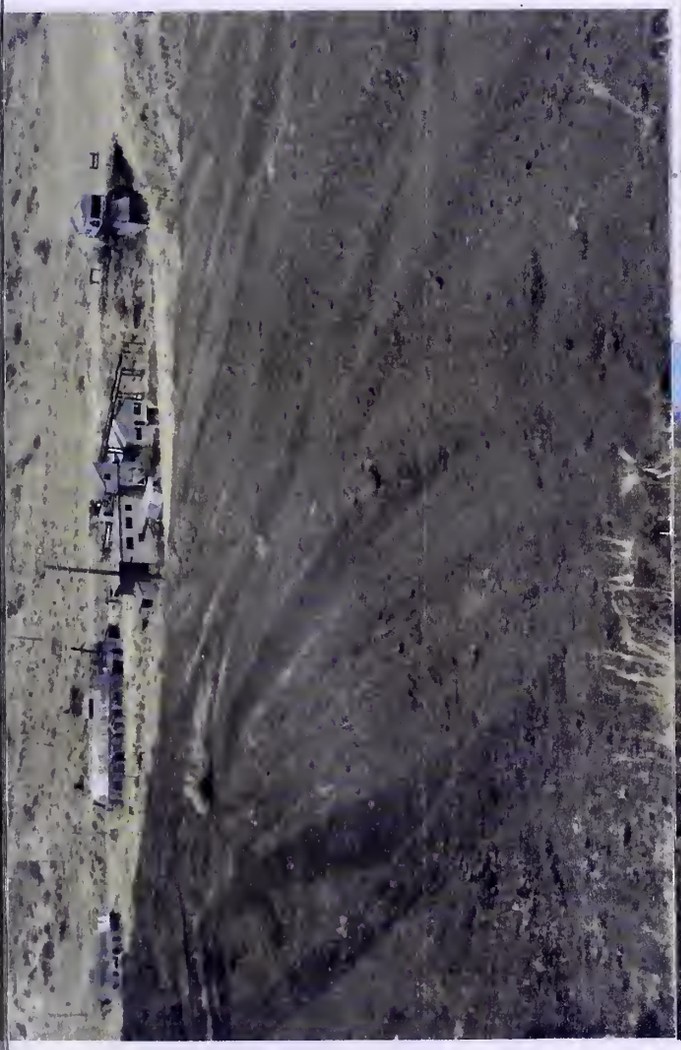
SMITH PIT MINE 8M186.141 12/22/93
Roll#: 3 Photo#: 14
LOOKING NORTH AT SITE

SMITH PIT MINE 8M186.141 12/22/93
Roll#: 3 Photo#: 11
TOPSOIL PILE, NEAR STA. 118+00

SMITH PIT MINE 8M186.141 12/22/93
Roll#: 3 Photo#: 15
LOOKING NORTH AT SITE

1ITH PIT MINE 8M186.141 12/22/93
)ll#: 3 Photo#: 16
.ACEMENT OF FILL IN OLD GRAVEL PIT AREA

SMITH PIT MINE 8M186.141 12/22/93
Roll#: 3 Photo#: 17
EXCAVATION NEAR CHANNEL 2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